



June 24, 2003

Mr. Nabil S. Fayoumi
U. S. Environmental Protection Agency - Region 5
Superfund Division
77 West Jackson Boulevard (SR-6J)
Chicago, Illinois 60604-3590

RE: TRANSMITTAL OF AQUATIC AND FLOODPLAIN FIELD SAMPLING REPORTS; SAUGET AREA 2 SITES; SAUGET, ILLINOIS

Dear Fayoumi:

On behalf of the Sauget Area 2 Sites Committee, AMEC Earth & Environmental, Inc., is pleased to submit to you the following documents for your review and comment related to the Baseline Ecological Risk Assessment for Sauget Area 2:

- Aquatic Field Sampling Report; and
- > Floodplain Field Sampling Report

Charles R. Harman (cc)

We look forward to any comments that you may have on these documents. If you have any questions, please call Steve Smith at (314) 674-4660 or me at (732) 302-9500.

Sincerely,

**AMEC** 

**EARTH & ENVIRONMENTAL** 

Charles R. Harman, P.W.S.

Principal Ecologist

Sauget Area 2 Ecological Risk Assessment Project Manager

cc: Sandra Bron; IEPA (1 CD copy of each document)

Peter Barrett; CH2MHill (1 CD copy of each document)

Steve Smith; Solutia (4 hard copies and 1 CD copy of each document)

Technical Committee (1 CD copy of each document) Robert Veenstra; URS (1 CD copy of each document) Lisa Bradley; ENSR (1 CD copy of each document)

Enclosures



# AQUATIC SAMPLING ACTIVITIES FIELD SAMPLING REPORT

## **SAUGET AREA 2 SITES**

SAUGET, ILLINOIS

# Prepared for:

Sauget Area 2 Sites Committee c/o Solutia 575 Maryville Centre Drive St. Louis, Missouri 63141

## Prepared by:

AMEC Earth and Environmental, Inc. 1395 S. Marietta Parkway, Bldg. 300, Suite 210 Marietta, Georgia 30067 Phone: (770) 420-2100

June 24, 2003

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- Table 2. List of samples collected from Sauget Area 2 sampling locations in Mississippi River and pond near Site Q.
- Table 3. Date and time of sample collection, and weather and surface water conditions during sampling.
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## **APPENDICES**

- Appendix I Addendum describing the changes to the aquatic sampling plan
- Appendix II Representative field photographs of sampling sites, equipment, and procedures
- Appendix III Copy of field log book
- Appendix IV Copy of field sheets of field observations and measurements
- Appendix V Copy of chain-of-custody forms

## 1.0 INTRODUCTION

Sauget Area 2 includes five former disposal areas, Sites O, P, Q, R, and S, adjacent, or in close proximity, to the Mississippi River (Figure 1). Sauget Area 2 is within the villages of Sauget and Cahokia, Illinois, roughly bounded to the west by the Mississippi River, to the north by the MacArthur Bridge railroad tracks, to the east by Illinois State Highway 3, and the south by Cargill Road. The Sauget Area 2 encompasses approximately 344 acres and fronts approximately 8000 feet of the Mississippi River. Two ponds created by the barrow pit operations are located at the southern end of Site Q.

In May 2001, the Sauget Area 2 Sites Group (SA2SG) submitted an RI/FS support sampling plan (Volumes 1 through 6) for the Sauget Area 2 Sites, which was subsequently approved by U.S. Environmental Protection Agency (USEPA). In the aquatic sampling plan titled "Surface Water, Sediment, and Aquatic Biota Sampling Project Plans" (Volume 3, Revision 1), the SA2SG outlined a program to collect surface water and sediment samples from three areas in the Mississippi River to which groundwater emanating from disposal areas is thought to be discharging.

In June 2001, Solutia independently completed an aquatic ecological risk assessment for the Mississippi River adjacent to and downstream of Site R as part of the Krummrich investigation (Menzie-Cura, 2001). The findings of the Krummrich ecological risk assessment indicated that impacts to ecological receptors were occurring within the sampling area, generally within 300 feet of the riverbank. Specific findings of this study were that planktonic species were determined to be at potential risk from exposure to surface water at the sediment/water interface, and that benthic invertebrates and fish were at a potential risk based on sediment toxicity tests.

Based on the Krummrich report and discussions with USEPA and Illinois EPA (IEPA), the scope of the planned aquatic sampling program was modified. The sampling protocols were revised to evaluate the potential for ecological impacts associated with

groundwater discharge into the river. Proposed changes to the aquatic sampling plan were submitted to USEPA in the form of an addendum to Volume 3 of the Support Sampling Plan (SSP) in September, 2002. This addendum is attached to this report as Appendix I. The aquatic sampling activities in the Mississippi River discussed here represent the "Main Sampling" event described in Appendix I and the Field Sampling Plan (Volume 3A) of the Aquatic Biota Sampling Project Plans.

In addition to sampling the river, two ponds located on the southern end of Site Q were also proposed to be sampled. The proposed pond sampling activities are described in Volume 1 "RI/FS Support Sampling Plan, Revision 1", Section 8.7 "Ponded Area Habitat Assessment".

#### 2.0 SUMMARY OF PLANNED ACTIVITIES

Sampling Locations: In this document, the terms "station" and "location" and "point" are used interchangeably to describe the discrete points at which samples were collected. A "sample plot" (Figure 1) or a "sampling area" refers to a general area consisting of seven sampling locations along three transects. Sediment and water samples were planned to be collected from six sampling areas along some 8000 feet of the Mississippi river. The sampling plan called for one sampling area to be located immediately upstream of Site P, one sampling area to be located riverward of the southern end of Site P, three sampling areas to be located riverward of Site Q, and one sampling area to be located immediately downstream of Site Q. Within each sampling area or plot, three sampling locations were to be on a transect 50 feet from the riverbank, three more 150 feet from the bank, and one 300 feet from the riverbank (Figure 1), for a total of seven sampling locations in each plot for a combined total of forty-two sampling locations. All sampling locations were to be located using Global Positioning System (GPS) equipment.

Habitat Assessment Survey: A habitat assessment survey consisting of qualitative evaluation of water quality and sediment substrate type was also planned at each of the forty-two riverine locations. Water quality parameters (including pH, temperature, conductivity, dissolved oxygen, and turbidity) were to be collected using a Horiba water quality instrument or similar device. Sediment characterization included visual observation of grain size distribution and presence/absence of organic matter.

<u>Analytical Parameters</u>: Sediment and water samples were to be collected at each of the forty-two sampling locations for the analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals (dissolved and total metals analysis in water), PCBs, and herbicides/pesticides. In addition, one sediment and water sample was to be collected for dioxin analysis at the center point in each of the six sampling areas.

<u>Benthic Invertebrates</u>: Sediment samples were to be collected for benthic invertebrate community structure analysis only if field observations indicated that the substrate was substantially different from that observed in the Krummrich work (Menzie-Cura, 2001).

Bioassay Toxicity Tests: Surface water samples and sediment samples were to be collected at each of the forty-two sampling locations for toxicity (bioassay) tests. In addition, sediment samples were also to be collected at each of the forty-two locations for bioaccumulation tests.

<u>Pond Sampling</u>: In addition to the sampling activities planned for riverine locations, sediment, water, and fish samples were planned to be collected from the two ponds located at the southern end of Site Q. Fish sampling from ponds was not in the original sampling plan (Volume 1 of RI/FS), but was included later based on discussions between SA2SG and USEPA (Note: per the revised sampling plan, fish samples were to be collected only from the ponds, and not from the River). Fish taken for tissue residue analysis (metals, SVOCs, herbicides/pesticides, dioxins, lipids) were to include small-mouth buffalo and small and large gizzard shad for use in the ecological risk assessment and channel catfish for use in the human health risk assessment.

Quality Assurance Project Plan (QAPP): The Quality Assurance Project Plan (Volume 3B) of the Aquatic Biota Sampling Project Plan describes how data from the Mississippi River, which will be used in the Ecological Risk Assessment (ERA), were to be collected and describes the specific quality assurance/quality control (QA/QC) procedures to be used to generate valid and usable data. The QAPP calls for collection of equipment rinse blanks, trip blanks, field duplicates, and matrix spikes and matrix spike duplicates (MS/MSD). Based on USEPA Region 5 requirements, one rinse blank and one field duplicate were to be collected for every ten (10) investigative samples of a given matrix, and one set of MS/MSD samples was to be collected for every twenty (20) investigative samples of a given matrix. Other QA/QC requirements on record keeping, field calibration of instruments, sample custody, holding time, shipping procedures, etc. were specified in the QAPP.

#### 3.0 DESCRIPTION OF SAMPLING EVENTS

#### 3.1 PERSONNEL

The aquatic sampling effort was led by AMEC scientists David Dean (aquatic task manager) and Mahalingam Ravichandran (field team leader). Other AMEC personnel assisted in sample collection. Helms & Associates provided boat support, assisted in marking sampling locations, operated the Van-Veen dredge, and assisted in benthic invertebrate identification. EPA contractor John Burke or an associate from CH2M Hill was present as an observer during the entire sampling period, except for one day (November 10, 2002). Two boats were used in the sampling effort: the boat operated by Don Helms was used for site identification, site survey, and other logistical support, while the other boat operated by John Ahrling was used for sediment and water sampling.

#### 3.2 PRE-SAMPLING PREPARATION

The aquatic sampling was conducted from November 6 to November 18, 2002. The existing pole-barn at 5 Riverview Avenue, Sauget, IL, was used as a staging area for preparing sample containers, sampling equipment and for packaging the samples for shipment. A limited reconnaissance survey was conducted on November 5, 2002, during which some of the sampling points were marked with flagging tape on the riverbank, and field equipment was tested to ensure that it functioned properly.

#### 3.3 HEALTH AND SAFETY PLAN

The protocols outlined in the Site-Specific Health and Safety Plan (HASP) of the Aquatic Biota Sampling Project Plan (Volume 3C) were followed during aquatic sampling activities. Specifically, all field-sampling personnel from AMEC participated in a medical surveillance program, and had current (refresher) certification in Occupational

Safety and Health Administration (OSHA) training (HAZWOPER) prior to participating in sampling work.

Dr. Ravichandran, who was trained in First Aid/CPR, was the Site Health and Safety Officer. Basic First Aid supplies and laminated map with directions to the hospital were maintained in each of the boats. A brief health and safety meeting was conducted each morning, prior to beginning the sampling work. Issues related to cold stress, machinery hazards, inclement weather, and working over or near water were discussed. opportunity was given for personnel to express health and safety concerns and to make any suggestions for the improvement of health and safety conditions. While on board, all field personnel were required to wear safety glasses, safety-toed rubber boots, and a life vest. Personnel operating the sediment sampler were also required to wear hard-hats to prevent hazards associated with booms, winches and other moving parts of the sediment sampler. In addition, all AMEC personnel were required to wear modified Level-D personal protective equipment (PPE), which included the above PPE as well as Tyvek cover-all suits. Field personnel involved in sample collection and decontamination procedures also wore disposable nitrile gloves that were changed at every sampling location or after handling non-sampling equipment. Sampling was conducted without any accidents or injuries.

#### 3.4 EQUIPMENT DECONTAMINATION

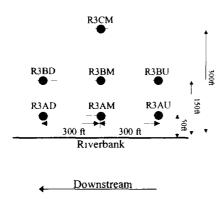
Equipment used in sediment and surface water sampling was decontaminated prior to use at each site in order to prevent cross-contamination and to maintain integrity of collected samples. Decontamination procedures were carried out in accordance with the protocols outlined in Appendix I of the QAPP (Volume 3B). Decontamination areas were setup in a portion of the boat as well as at the staging area. The equipment decontaminated between samples included a Horiba water quality instrument, tubing in the peristaltic pump used for surface water sampling, and sediment sampling equipment including a Van-Veen dredge, trowels, bowls, and stainless steel spoons.

Both the FEP-lined polyethylene tubing (Cole-Parmer Catalog No. EW-06385-03) used for surface water sampling and the silicone tubing used on the peristaltic pump-head are considered to be highly pure, chemically inert, and ideally suited for environmental sampling, according to the vendor. Due to the high cost of the tubing, it was not disposed of after each use. Instead, several sets of pre-cleaned tubing were taken to the field each day, and clean tubing was used at each sampling location. After each use, the tubing was removed from the pump and placed in plastic bags for decontamination at the end of the day. Used tubing was cleaned by circulating isopropyl alcohol followed by deionized water throughout the length of the tube, and then placed in clean zip-lock bags for use the next day. Detergents were not used to clean the tubes because of the possibility of leaving residuals in the tubing, and because contaminant absorption to the FEP walls of the tube was expected to be minimal.

All other equipment was decontaminated in the field. The Horiba water quality instrument was decontaminated by spraying the probe and outside protective casing with distilled water. The Van-Veen dredge was cleaned first by spraying with distilled water, both inside and outside. This was followed by a rinse with isopropyl alcohol, and finally with a distilled water rinse. The trowels, bowls, and stainless steel spoons used for sediment sampling were first washed in a dilute Alconox® detergent solution, then rinsed with distilled water, followed by rinses with isopropyl alcohol and distilled water. They were then dried with paper towels and wrapped in aluminum foil before use at the next locations. Fluids used for decontaminating equipment were separately collected in containers and discarded in a drum designated for this purpose at the staging area. Equipment rinse blanks collected as part of this sampling plan provides a quality control measure for the effectiveness of cleaning methods, as described in Appendix A-1 of the QAPP.

#### 3.5 SITE AND SAMPLE IDENTIFICATION

Each of the forty-two riverine sampling points was given a unique four-digit location identification (Table 1). A schematic of sampling points at sample plot 3 (Figure 1) is illustrated below (Note: samples were planned to be collected at the distances shown in the schematics; however, as described elsewhere in this report, samples could not always be collected at these distances due to the presence of barges or other site conditions. The actual sampling locations are shown in Figure 2).



The first digit "R" stands for "River" (vs. "P" for "Pond"). The second digit, 1 through 6, refers to the six plot areas marked on the map (Figure 1), 1 being the most upstream plot and 6 the most downstream plot. The third digit (A, B, or C) refers to the three transects within each plot area, where the "A" transect is 50 feet from the riverbank, the "B" transect is 150 feet from the riverbank, and the "C" transect is 300 feet from the riverbank. The fourth digit (D, M, or U) refers to the position of sampling points within each transect: "D" refers to the downstream sampling location, "M" is for midstream location, and "U" standing for the upstream location. Note that in the C transect (300 feet from riverbank) only a midstream location ("M") was sampled. The only exceptions to these identifications were in the R5 plot, where samples were collected at two additional locations north ("N") of R5AU and R5BU, and are marked R5AN and R5BN,

respectively (Note: reasons for additional sampling locations in this plot are discussed in Section 5 "Deviations from Sampling Program" of this report).

The water and sediment samples are identified by a unique six-digit identification. The first four digits represent the location identification as described above. The fifth digit, 1 through 4, refers to sample type: 1 for Sample, 2 for Field Duplicate, 3 for MS/MSD sample, and 4 for Rinse Blank (exception: at R1BM, the MS/MSD was given the same identification as the Sample, R1BM1, at the request of the analytical lab). The sixth digit represents the sample matrix, "S" for sediments or "W" for water. All sample containers were labeled with the appropriate sample identification the day before actual sampling. A list of all samples collected and shipped to the laboratory is given in Table 2.

#### 3.6 SAMPLING PROCEDURES

Aquatic samples were collected at the most downstream point of the Mississippi River (plot area 6, located south of Site Q) first, and progressed upstream. After reaching the sampling area, sampling procedure consisted of the following steps (in the order given):

- conduct a brief survey of the surrounding area as well as the bottom substrate
- mark the position of the boat using a GPS unit
- take pictures of the area
- take water quality measurements at bottom depth
- collect surface water samples
- collect sediment samples
- take water quality measurements at mid-depth and near surface
- document field observations in field log book as well as field sheets
- inventory and pack the samples in ice
- decontaminate sampling equipment as necessary before moving to the next sampling location.

These procedures are described in detail below.

#### 3.6.1 SITE SURVEY

The six sampling plots were located roughly based on the physical features shown on the map (Figure 1). There was heavy traffic of barges and tugboats in the study area, which sometimes prevented sampling at the exact locations marked on the map. After reaching the general sampling area, the boat operators traversed the area to find areas unobstructed by barges or objects on the bottom. The depth to bottom was briefly surveyed using onboard sonar equipment and depth finder. Surface water circulation patterns were studied to identify and avoid eddy currents that might have posed potential anomalous sedimentation. If the area appeared to be conducive for sampling, the bank was marked with flagging tape, when possible. Pictures of the sampling areas were taken using a digital camera and stored on 3.5 inch floppy disks for later downloading to a computer. Representative field photos are provided in Appendix II.

#### 3.6.2 SITE LOCATION AND POSITIONING

After identifying the general area, the location of the sampling transects were marked by measuring the appropriate distance (50 feet, 150 feet, or 300 feet) from the riverbank using a range finder. Within each transect, the three (downstream, midstream, and upstream) sampling locations, approximately 300 feet from each other, were similarly marked. Due to the presence of barges, rocky substrate, or other large objects in bottom at some of the points, it was not always possible to collect the samples at these distances, and professional judgment was used to select the best areas for sampling. Sampling points were described in field notebooks. Once a sampling point was identified, the boats were anchored, and floatation devices tied to an anchor line were used to mark locations in the water. Actual field sampling locations are shown in Figure 2.

General site conditions were recorded on the field logbook. A copy of the field logbook is attached as Appendix III. Site-specific information for each sampling location was recorded on a pre-printed field sheet. The information recorded on these sheets included

site identification, latitude, longitude, date and time of sampling, weather conditions (temperature, cloudiness, precipitation, wind direction, velocity etc.), surface water conditions, and depth to bottom. The coordinates of the sampling boat position were recorded using a portable Garmin-12 GPS unit. Water quality parameters described below were also recorded on these sheets. Copies of field sheets are attached as Appendix IV.

## 3.6.3 WATER QUALITY MEASUREMENTS

Water quality measurements were taken using a Horiba water quality instrument. The instrument was calibrated each morning using fresh calibration solution provided by the (Pine Environmental Services, Inc.), following the manufacturer's recommendations. After calibration, the instrument was rinsed with distilled water prior to taking water quality measurements. Strong currents in the Mississippi River made it nearly impossible to vertically suspend the Horiba or flexible tubing for surface water sampling without significant drift. To overcome this problem, the Horiba and water sampling tubes were strapped to the frame of the Van-Veen dredge (Figure A-5) such that when the Van-Veen dredge was lowered to the bottom, the Horiba and the end of the water sampling tube were about one foot above the sediment-water interface. The heavy weight of the Van-Veen dredge helped to prevent the Horiba from drifting with the currents.

After lowering the Horiba to the bottom, water quality measurements were taken after waiting for about 5 minutes or until measured parameters reached steady values, which allowed for the equilibration of the instrument and helped prevent any spurious turbidity measurements resulting from sediments that may have been resuspended by the Van-Veen dredge. Measurements of pH, dissolved oxygen, temperature, depth, conductivity, and turbidity for bottom depth were recorded on field sheets. Following these measurements, water samples were collected at this depth as described in section 3.6.4. After water sampling was completed, the Horiba was moved to a mid-depth point, where

Sauget, Illinois

after a brief equilibration time, the water quality measurements were recorded again. This was repeated once more when the Horiba was within one foot of the water surface. Finally, the Van-Veen dredge was brought inside the boat, and the Horiba was detached, decontaminated as previously described, and stored.

#### 3.6.4 SURFACE WATER SAMPLING

All surface water samples were collected approximately one foot above the sediment-water interface, after recording the water quality parameters on the Horiba. One end of a pre-cleaned FEP-lined polyethylene tube (1/4" I.D.) was attached to the Van-Veen dredge as previously described, and the Van-Veen dredge was lowered gently until it reached the bottom. The other end of the tube was inserted into the inlet end of the silicone tubing (3/8" I.D.) attached to the pump head of the Solinst Peristaltic Pump (Model 410). The pump was operated by a portable 12-volt battery. The tubes were purged with about eight to ten liters of river water, which was collected separately in a bucket, and released back to the river after all water sampling was completed at that sampling point.

After purging, water samples were collected in pre-labeled sample containers, directly from the outlet end of the silicone tubing. Personnel handling water samples donned new gloves prior to sample collection at each point. Samples for VOC analysis were collected first, followed by sampling for other chemical analyses, and last for bioassay tests. For VOC analysis, the sampling tube was slightly inserted into the sample vials (three 40-mL) and water was pumped at a very slow rate in order to avoid loss of preservatives. After verifying that there was no headspace (air bubbles) present in the VOC vials, the caps were replaced tightly and placed in ice.

Samples for total (unfiltered) metals analysis were collected in 250-mL plastic bottles containing nitric acid as preservative. Samples for dissolved (filtered) metals analysis were also collected in 250-mL plastic bottles, but without a preservative, for filtration in

the lab (as indicated on the bottle and chain-of-custody forms). Water samples for SVOCs, PCBs, pesticides and herbicides were collected in seven 1-L amber bottles without preservatives. Dioxin samples, when collected, were taken in two 1-L bottles without preservatives. Bioassay samples were collected in 2.5-gallon collapsible nalgene containers provided by the laboratory.

After the water sampling was completed at a location, samples were inventoried and the site-checklist for samples was completed. When additional QC samples (field duplicates, MS/MSD) were collected, all water sampling was completed before collecting sediment samples. Samples were then placed in ice away from sunlight. The tubes were then detached from the Van-Veen dredge and the pump head and placed in plastic bags for decontamination off-site.

#### 3.6.5 SEDIMENT SAMPLING

Sediment samples were collected using a Van-Veen dredge, shown in Figure A-1. This dredge takes a 13-inch square surface sample from the top six inches of sediment, and has a capacity of 20 L. The Van-Veen dredge was prepared for sediment sampling by bringing the sampler to an open position and resetting the release mechanism. It was then lowered until it hit the sediment layer, which released the jaws, aiding the sample collection. After the dredge collected sediments, it was raised using a mechanized winch mechanism (Figure A-3) and brought into the boat. Sampling staff then carefully opened the access covers for sample collection.

Sediment samples for VOC analysis were collected first using lab-provided 5-mL syringes, cutoff at the tip, as described in the QAPP. The syringes were carefully inserted into the top few centimeters of the sediment layers with a slight suction, and about 5-mL of wet sediment was transferred to VOC vials containing appropriate preservatives for low-level (deionized water as preservative) and high-level VOC analysis (methanol as preservative).

Prior to collecting samples for other analyses and bioassay tests, large gravels, sticks, or other foreign objects were carefully removed and discarded. After this, a sufficient volume of sediment was transferred to and homogenized in a stainless steel bowl for collection. The homogenization step was skipped if the sediments appeared to be uniform with depth within the grab. Sediment samples were then transferred to prelabeled containers for grain size (500-mL glass), TOC/pH (250-mL plastic), metals (250-mL plastic), and for SVOC/PCB/Pesticides/Herbicides (500-mL glass) analysis. Sediments for bioassay (1-gallon) and bioaccumulation tests (3.5-gallons) were collected in plastic bags, double-bagged and tied with zip-ties. If adequate sample volume was not obtained in the first grab, the Van-Veen dredge was sent down again to collect additional sample volumes. All sediment samples were inventoried and checked against the site-checklist to make sure all required samples (including QA/QC samples) were collected.

#### 3.6.6 SEDIMENT PROPERTIES AND BENTHIC INVERTEBRATES

Sediment brought in by the dredge was visually evaluated by field personnel for grain size, organic matter, and any odor, and the information was recorded in field sheets along with water quality information. The sediments were then evaluated by Don Helms for the presence of any benthic invertebrates. Any benthic organisms present in sediments or found attached to other objects such as rocks, sticks, and ropes were identified and recorded on field sheets and field notebooks. Where benthic invertebrates were observed in sediments, and sediments appeared to be substantially different than the observations reported in the Krummrich ecological risk assessment, a volume of sediment was sieved on a 0.5-mm screen, and the retentate was transferred to a container (with isopropyl alcohol as preservative) for laboratory identification and quantification of benthic invertebrates. Benthic invertebrate samples were only collected from two locations (R1BD and R6AD).

## 3.6.7 QUALITY CONTROL SAMPLES

The QAPP called for the collection of Quality Control samples including field duplicates, matrix spikes and matrix spike duplicates (MS/MSD), and field blanks (consisting of rinse blanks and trip blanks). Based on USEPA Region 5 requirements, one rinse blank and one field duplicate was collected for every ten investigative samples of a given matrix, and one set of MS/MSD samples for every twenty samples of a given matrix. The following table shows the total number of samples and targeted frequency for QC samples.

Chemical	No. Samples		Field Dup		Rinse Blanks		MS/MSD	
Parameter	Sed.	Wat.	Sed.	Wat.	Sed.	Wat.	Sed.	Wat.
Metals	43	43	5	5	5	5	3	3
VOCs	43	43	5	5	5	5	3	3
SVOCs, Pest, Herb, PCBs	43	43	5	5	5	5	3	3
Hardness	NA	43	NA	5	NA	5	NA	3
Dioxins	7	7	1	1	1	1	1	1
Grain size	43	NA	5	NA	NA	NA	NA	NA
TOC, pH	43	NA	5	NA	NA	NA	NA	NA-
Bioassay	43	43	5	5	NA	NA	NA	NA

Field duplicates were collected at the same location as the field samples using the same sampling procedures. Field duplicates were collected at five locations (R6AM, R4CM, R2AM, R1BM and Pond) for all analytical parameters, except dioxins, and at one location (R1BM) for dioxins (Note: Some of the field duplicates of water samples collected from Pond location were later analyzed as filtered samples, as described in Section 4.8).

The MS/MSD samples were collected identically to field samples and were identified as MS/MSD samples on the chain-of-custody forms sent to the laboratory. MS/MSD samples for all analyses except dioxins were collected from three locations (R5AM, R3CM, and Pond), while the dioxin MS/MSD samples were collected at the R1BM station.

Rinse blanks were collected by pouring distilled water over decontaminated sampling equipment and collecting the rinsate for chemical analysis. For the water matrix, rinse blanks were obtained by pumping distilled water through the decontaminated tubes attached to a peristaltic pump. For the sediment matrix, distilled water was poured over the Van-Veen dredge, gloves, trowels, bowls and stainless steel spoons used for sediment sampling. The rinsate water was collected in a bowl, and transferred to sample containers using a decontaminated funnel. Rinse blanks for all applicable chemical parameters except for dioxins, were collected at five stations (R5BU, R3BD, R1AD, R1CM, and Pond), and dioxin rinse blanks were collected at two stations (R3BD and R5BU).

Trip-blanks were provided by the laboratory and were not site-specific. One set of trip blanks for high-level and low-level VOCs analysis were included in each of the coolers shipped to the laboratory that contained VOC samples.

Due to the limited amount of fish available, separate fish samples were not collected for QC analysis. Rather, a large quantity of carp fish fillets were sent to the laboratory to be used as a QC sample as well as for a field duplicate and MS/MSD, after homogenization.

#### 3.6.8 POND SAMPLING

The aquatic sampling plan (Section 8.7 in Volume 1) called for sampling of the two ponds located on the southern end of Site Q, at three sampling locations in each pond. The smaller pond was completely dry at the time of sampling and was not sampled. The larger pond was nearly dry (Figure A-28), with the water only a few inches deep over a

50-foot by 100-foot area. Because of this, water and sediments were collected from only one location in the large pond, and the sampling protocols for pond sampling were modified from those in the riverine sampling, as described below.

A small trailer was setup at the edge of the water as a platform for collecting sediment and water samples. Samples were collected from this platform without disturbing the pond substrate (Figure A-29). For surface water samples and water quality measurements, a long bamboo pole was wrapped at the tip with clean zip-lock bags (Figure A-29). This end of the pole was decontaminated by spraying it with isopropyl alcohol and distilled water. The polyethylene tubing used for water sampling was attached to the end of the pole such that the tubing extended six inches beyond the pole. The other end of the tubing was connected to the peristaltic pump, to the outlet of which the flow-through cell of the water quality instrument was attached. The tubing on the bamboo pole was immersed in the pond and water was pumped by the peristaltic pump through the flow-through cell of the Horiba. After pumping a sufficient volume of water to stabilize instrument readings, readings of water quality parameters (dissolved oxygen, pH, temperature, turbidity and conductivity) were taken. After water quality measurements were taken, the tubing was purged for another 5 minutes, and water samples were collected in the appropriate containers for all chemical analyses, including QA/QC samples.

After water sampling was completed, a shovel wrapped with zip-lock bags at the sampling end was decontaminated with isopropyl alcohol and water, and used for scooping sediment samples from the top four inches. These sediment samples were observed for grain size and organic carbon content, and after taking VOC samples, were homogenized in a mixing bowl. Homogenized sediment samples were transferred to appropriate lab containers for analysis.

Helms & Associates collected fish from the pond by hoop-netting or electroshocking. Several species of fish including Chinese silver carp, buffalo, common carp, Chinese bighead, brown bullhead, short-nose gar, channel catfish, and bluegills were observed.

The bluegill and brown bullhead were targeted for use in the ecological risk assessment, and the common carp for use in the human health risk assessment. Due to the small size of bluegill present in the pond, they were collected using hoop nets (Figure A-30). About 190 bluegills were collected and their combined weight (90 g) was measured with a balance. The average lengths of ten individuals were measured on a ruler according to procedures outlined in QAPP.

Electroshocking was used to collect the rest of the fish samples (Figure A-30). Two bullhead and one carp were filleted skinless using decontaminated filleting knives and cutting boards, packed in zip-lock bags with ice, and shipped to the laboratory on dry ice.

## 3.6.9 CHAIN-OF-CUSTODY, SAMPLE PACKAGING, AND SHIPPING

Samples collected in the field were transported to the staging area for processing. All water and sediment samples for chemical analysis, except dioxins, were shipped to STL in Savannah, GA. Dioxin samples were shipped to STL in Sacramento, CA. Sediment and water samples for bioassay and bioaccumulation tests were shipped to the AMEC bioassay laboratory in San Diego, CA, while benthic invertebrate samples were shipped to Pennington Associates in Cookeville, TN.

All samples were shipped in hard-coolers, lined inside with plastic bags and bubble-wrap to prevent breakage and leaks. Sample identification, date and time of collection, analysis required, and other information were entered on respective chain-of-custody forms, which were placed in a zip-lock bag and taped to the inside of the cooler. Copies of chain-of-custody forms are attached as Appendix V. All VOC samples (both sediments and water) were segregated and packed in a separate cooler with a set of trip-blanks, temperature-blanks (provided by the lab) and fresh ice for shipment to STL in Savannah. Samples collected for other analyses, except dioxins, were packed in coolers with fresh ice (placed in double zip-lock bags) with a temperature-blank container provided by the laboratory and shipped to the same laboratory. All fish samples were

packed with dry ice and shipped to STL in Savannah for compositing, and the lab was requested (over the telephone and indicated on chain of custody) to send a composited sub-sample to STL in Sacramento for dioxin analysis. Sediment samples collected for benthic invertebrate analysis were shipped with ice and isopropyl alcohol as preservative. All sample coolers were shipped standard overnight via Federal Express. Individual laboratory managers were called periodically to verify that the samples were delivered in good condition.

#### 4.0 FIELD MEASURMENTS AND OBSERVATIONS

#### 4.1 GENERAL OBSERVATIONS

GPS coordinates (latitude and longitude) of sampling points are tabulated in Table 1. Actual sampling locations were at or close to the proposed locations, and are shown in Figure 2. As discussed in Section 5, some sampling locations could not be located at planned distances from shore (i.e., 50 feet, 150 feet, and 300 feet) due to physical barriers (e.g., barges) or unfavorable bottom conditions (e.g., rocky substrate). Date and time of sampling, and general weather and surface water conditions observed during sampling are summarized in Table 3. The water quality parameters recorded from the Horiba are summarized in Table 4.

In general, the depth to bottom within the sampling area varied from approximately 2 feet to approximately 35 feet, with an average water column depth of 16.5 feet. Due to winds and fast moving currents, the water column was well mixed as indicated by the uniform temperature, conductivity, and dissolved oxygen measurements. Temperature values ranged from 7.8 to 9.3 °C in bottom water (~one foot above sediment-water interface), mid-depth, and surface water (zero to one foot depth), with an average of 8.6 °C (47 °F). Conductivity ranged from 0.42 to 0.48 mS/cm in bottom water, and from 0.43 to 0.48 mS/cm at mid-depth and surface levels. The pH of surface water was slightly alkaline and ranged from 7.2 to 8.3 in bottom water, 8.0 to 8.5 in mid-depth measurements, and 8.1 to 8.6 in surface water. Dissolved oxygen levels varied from 11.5 to 14.1 mg/L in bottom water, 11.6 to 14.5 mg/L at mid-depth, and 11.6 to 14.4 mg/L in surface water. The turbidity values were highly variable throughout the depths as well as between locations depending on weather conditions, current flow, physical setting of the area and depth. Measured turbidity values ranged from 13 to 421 NTU in bottom water (average 49 NTU), 17 to 150 NTU in mid-depth (average of 36 NTU), and 3 to 169 NTU in surface water (average of 36 NTU).

Sediment properties and presence of any benthic organisms are summarized in Table 5. The bottom sediments exhibited a range of grain sizes, from very fine silty-clay to very coarse gravelly-sand with pebbles. The color and organic carbon content also appeared to be highly variable. Benthic invertebrates were observed in the most upstream area (R1 plot area) and in the most downstream area (R6 plot area) but not at sampling locations in-between. Benthic samples were collected only from two sampling locations, R6AD and R1BD.

The following sections describe some important site-specific observations and conditions.

#### 4.2 SAMPLING AREA-6

This was the most downstream area in this study and was sampled on November 6 and November 7, 2002. The most downstream sampling points in this area were located about 50 feet upstream of the railroad and barge loading dock. First the middle sampling point was marked on the bank with a stake and a flagging tape. The downstream sampling point (R6AD) was marked 160 feet downstream of this position, and the upstream sampling point was marked 180 feet upstream of this location. These distances were chosen (instead of 300 feet) due to the presence of barges in this area and wooden debris on the bottom. At this area, the bank was moderately steep and littered with driftwood (Figure, A-26). At the first sampling point (R6AD), a Hexagenia (mayfly larvae) was observed, and sediment samples were sieved to collect samples for benthic invertebrate identification. The 150 feet downstream location (R6BD) had unknown objects on the bottom that resulted in the loss of an anchor. Due to fear of losing the Van-Veen dredge, no samples were collected at this location. The R6BU point was located 110 feet from shore instead of 150 feet because of abrupt change in bottom depth at that distance.

## 4.3 SAMPLING AREA-5

This plot was located about 1000 feet upstream of area 6 and sampling was conducted from November 7 through November 9, 2002. On the downstream side of this area, the presence of a loading dock and barges prevented sampling further south. On the downstream end, the shore was steep and rocky with wooden debris. In this area, the bottom appeared to have been covered with the rocks, and sediment grabs could not be obtained using the Van-Veen dredge. After collecting the water samples at R5AD location (Figure A-23) on November 7, several unsuccessful attempts were made to collect sediment grabs. Sediment collection was attempted after moving about 200 feet upstream and downstream of this location, as well as moving 150 feet into the stream channel (where R5BD station is located). On November 8, the sampling crew went back to this area and collected water samples at the R5BD (~165 feet) location, but no sediments could be collected up to 230 feet from shore at this location. The presence of barges prevented attempting sediment sampling further into the channel. Thus, R5AD and R5BD had only water samples and did not have corresponding sediment samples.

The midstream locations (R5AM, R5BM, and R5CM) in this area had no such limitations and sediment and water samples were collected. However, the sampling effort was concluded earlier in the day due to strong winds that presented unsafe working conditions. The upstream locations R5AU and R5BU were also sampled successfully, except that R5AU was collected 65 feet from shore, instead of 50 feet, due to very shallow water (2 to 3 feet), which made sediment sampling difficult using the Van-Veen dredge.

To compensate for the two locations (R5AD and R5BD) where sediment samples could not be collected, two additional sampling locations were chosen at the request of USEPA, Illinois EPA, and the Project Manager. These points were marked at about 300 feet upstream of R5AU and R5BU, and were named R5AN (50 feet from the bank) and R5BN (150 feet from the bank). These two points were sampled at the end of the

sampling event on November 17, 2002 (Figures A-20 to A-22). Both sediment and water samples were collected at these locations.

#### 4.4 SAMPLING AREA-4

The Area-4 sites were located around a boat ramp in this portion of the Mississippi River (Figure A-19). On the downstream side of the boat ramp there was a sunken barge near the bank. Further downstream of the barge were rock pilings on the bank. In this curved area of the bank, strong eddy currents were observed and the sonar indicated an uneven substrate and large objects on the bottom. Hence this area was avoided, and sampling sites R4AD and R4BD were located slightly upstream of this area, into the channel and away from the sunken barge. At the R4BD site, water samples were collected 150 feet from bank, but sediment grabs could not be collected due to the presence of large sticks and rocks in the sediments. Sediment samples were collected after moving about 15 feet further into the river channel (i.e., 165 feet from the bank).

At upstream locations within this area, samples were not collected in the direction of the boat ramp to avoid potential damage to the Van-Veen dredge and because sediments here may have been influenced by activities on the boat ramp and adjacent area. The midstream locations were therefore collected about 50 feet upstream of the boat ramp. R4CM and R4AU sites also posed problems for sediment sampling, and adequate quantities of sediments were collected only after several attempts or after moving few feet into the channel.

#### 4.5 SAMPLING AREA-3

Area-3 was located on the downstream edge of Site R and was sampled on November 12 and November 13, 2002. The downstream sites in this area (R3AD and R3BD) were located slightly upstream of a grain loading area (Figures A-16, A-17), and northeast of

Area-4. At the R3AD site, sediment grabs were obtained after several attempts and after moving about 5 to 10 feet into the channel. Toward the end of water sampling at R3BD, a tugboat moved barges within 100 feet of the sampling location. However, the water samples did not show elevated levels of suspended particulate concentration. At R3CM, a barge was parked at about 320 feet from the riverbank, and samples were collected 20 feet from the barge (at 300 feet). All other sampling points were completed normally.

#### 4.6 SAMPLING AREA-2

Sampling Area-2 was located northeast of the power plant and was sampled from November 13 through November 15, 2002 (Figures A-11 to A-15). Sampling points R2AD and R2BD were located about 255 feet north of metal pilings in the water near the power plant and about 75 feet upstream of the dike. At R2BD, several attempts had to be made to get sediment grabs. While R2BM was being sampled, fine coal dust was coming off from the nearby barge loading operations, and care was taken to prevent coal dust entering sample containers. Barges occupied most of the mid-stream and upstream sampling points in this area and sampling locations were chosen in open areas around barges. At R2BU, the Horiba water quality instrument gave an error message indicating a low-battery.

### 4.7 SAMPLING AREA-1

Sampling Area-1 was located upstream of Site P, between MacArthur railway bridge and Interstate Highway Bridge (Figures A-7 through A-10). The downstream sampling locations in this area were placed 15 feet downstream of the barges. The bottom sediments contained discarded steel anchor lines and rocks, and live zebra mussels were found attached to these objects. At R1BD, sediments contained Asiatic clams (*Corbicula*) and benthic invertebrate samples were collected at this location by sieving about 10 L of sediments. At R1BM, sediment samples were collected 200 feet from

shore since sediment grabs could not be obtained at the 150-foot distance. Similarly, at R1AU site, the Sonar unit indicated a rocky bottom and sediment grabs were unsuccessful. Therefore, this sample location was moved to 105 feet from shore (instead of 50 feet) and sediment and water samples for this site were collected. The R1BU site samples were collected at the planned distance (150 feet from shore). The R1AM site (50 feet from bank) was very shallow at only 2 feet. Because of this, the water quality parameters were only at one depth (1 foot below surface).

#### 4.8 POND SAMPLING

At the time of sampling, the large pond at the southern end of Site Q was nearly dry, with the water occupying an estimated 50-foot by 100-foot area (Figure A-28). The water column was only 2-6 inches deep and was very turbid. The sediments were sticky clay with silt and contained some organic matter. Water and sediment samples were collected as described previously. In addition to collecting samples, one set of field duplicates, rinse blanks, and MS/MSD samples were collected at the pond.

The high turbidity conditions observed in pond water samples necessitated some last minute changes to the sampling plan. In consultation with the project manager and the EPA contractor, some of the water samples collected as field duplicates were filtered and used for measuring contaminant concentrations in the "dissolved" fraction. The laboratory was asked to filter water samples for the analysis of hardness, SVOCs, Pesticides, Herbicides, and PCBs (Note: metals were not included because they are already measured in filtered and unfiltered samples). Water samples were not filtered for VOC analysis or for bioassay tests. A complete set of field duplicates were collected on sediment matrix.

A total of 190 bluegills were collected using hoop nets, with a combined net weight recorded at 90 g. The lengths of ten of these bluegills were measured at: 48, 22, 37, 27, 38, 36, 32, 26, 34, and 30 mm, respectively, with an average length of 33 mm. All

bluegill were combined as one sample for use in the ecological risk assessment. Two black bullhead were also collected for use in the ecological risk assessment: the first was 322 mm long and weighed 485 g, and the second was 232 mm long and weighed 130 g. These two fish were filleted without skin. The fillets weighed 120g and 35 g, respectively. The fillets from these two fish were combined into one sample. In addition, a male carp weighing 870 g and measuring 512 mm was also filleted skinless (fillet weight 410 g) to be used in the human health risk assessment.

#### 5.0 SUMMARY OF DEVIATIONS FROM SAMPLING PROGRAM

For the most part, the field sampling procedures outlined in this report were consistent with the Aquatic Biota Sampling Project Plans (Volume 3) and subsequent revisions discussed earlier. However, certain site conditions and professional judgment warranted minor adjustments to the sampling plan, which are outlined here.

<u>Sampling Locations</u>: Aquatic samples were proposed to be collected from forty-two sampling locations in the river. As discussed in Section 4 in this report, presence of rocks, logs and other objects in the bottom substrate prevented the collection of sediment samples at some of these locations. No sediment or water samples were collected from R6BD, and sediment samples could not be collected at R5AD and R5BD locations. To compensate for these locations, at the request of EPA contractor and AMEC project manager, two additional sampling locations (R5AN and R5BN) were selected and both water and sediments samples were collected at these locations.

The aquatic sampling plan called for sampling stations to be located along transects spaced 50 feet, 150 feet, and 300 feet from the riverbank in each of the six sampling areas. As described in Section 4, some of the sampling stations could not be located at the planned distances due to inaccessibility (caused by the presence of barges) or because of unfavorable bottom conditions (presence of logs, rocks or other objects in substrate) that prevented sediment sample collection. In such cases, professional judgment was used to locate these sites as close as possible to the planned locations.

In the case of the pond sampling, the RI/FS Support Sampling Plan (Section 8.7) called for sediment and water sampling at three locations in each of the two ponds. As discussed earlier, the smaller of the two ponds was completely dry and was not sampled. At the large pond, only a very small area (estimated 50 feet by 100 feet) was covered with water (Figure A-28) and the water column was only 2 to 6 inches deep. In fact, the water was so shallow that the dorsal fins of the larger fish were protruding from the

water. Within the small area covered by water, the spatial variation in water quality or sediment quality was not expected to be significant, and therefore water and sediment samples were collected from only one sampling location within the pond.

Water Quality Measurements – The QAPP specified the use of a Horiba U-10 water quality instrument for on-site measurement of water quality parameters. Water quality measurements were made using a Horiba U-22 water quality instrument instead of the U-10 because of its longer cable length (100 feet instead of the 6 foot cable length in the U-10 model) and other advanced features. The longer cable allowed direct in-situ measurements of water quality parameters in deeper parts of the Mississippi River, and prevented any artifacts in dissolved oxygen or temperature measurements that may be associated with ex-situ measurements. In addition, this unit allowed the direct measurements of depth of the water column, which was useful in obtaining water quality parameters at three different depths in the water column. It also has a flow-through cell that was helpful in obtaining water quality measurements at the pond, where the water depth was only few inches.

<u>Fish Samples</u> – As discussed previously, fish samples were only collected from the pond. The aquatic sampling plan called for the collection of small-mouth buffalo, small gizzard shad, and large gizzard shad for use in the ecological risk assessment and channel catfish for use in the human health risk assessment. Possibly as a result of the dry conditions encountered at the pond, shad were not observed in the pond and buffalo and channel catfish were not available in sufficient quantities. Hence, bluegill and bullhead were collected for the ecological risk assessment and carp collected for the human health risk assessment.

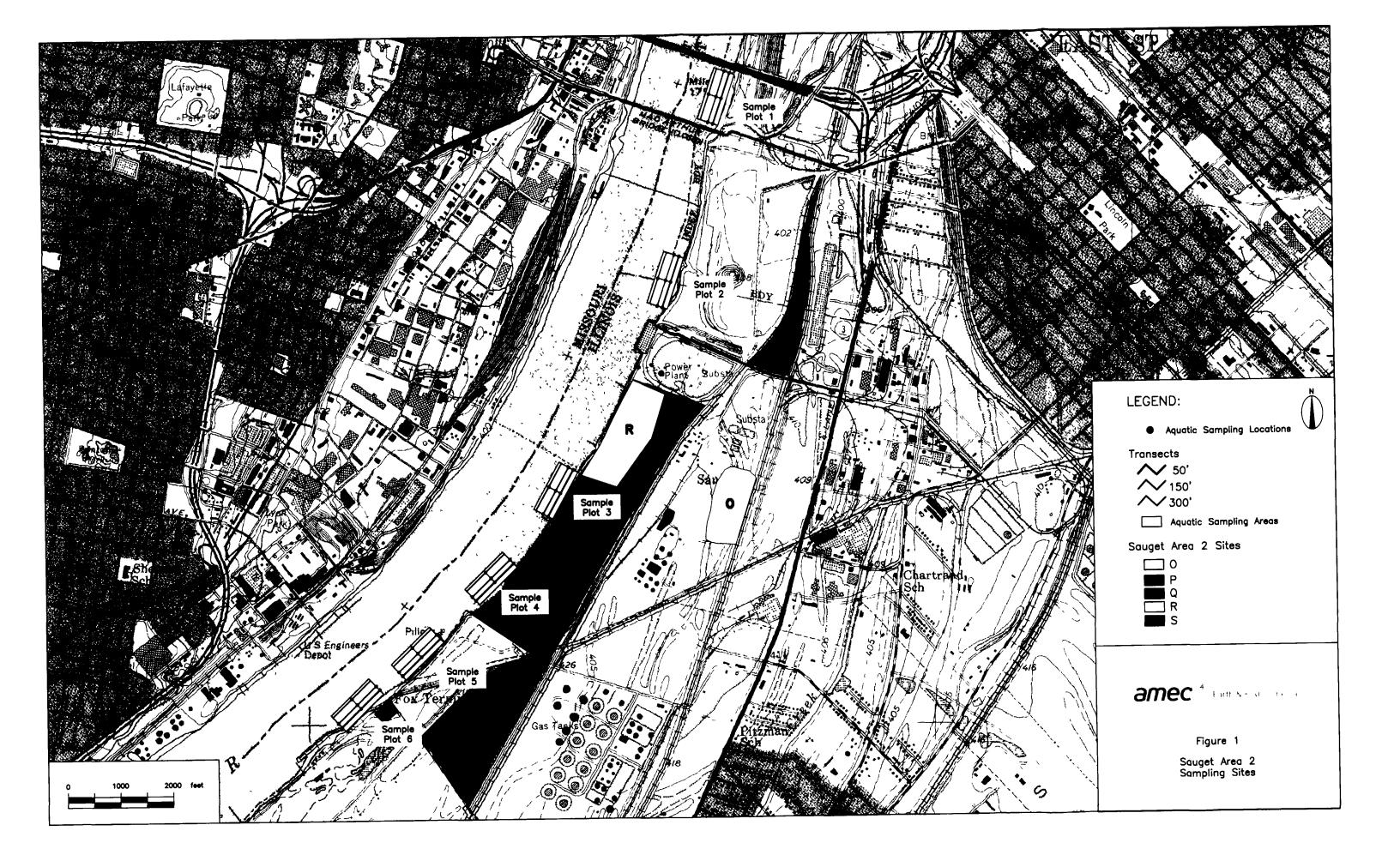
Quality Control Samples – Table in Section 3.6.7 summarizes the minimum number of field duplicates, field rinse blanks, and MS/MSD samples targeted for collection. The targeted number of rinse blanks, trip blanks, and MS/MSD were collected as planned. However, there was a slight variation in the number of field duplicates. Of the five targeted field duplicates, four were collected from riverine locations, and the fifth one

was collected from the pond. When the pond water was observed to be very turbid, in consultation with the project manager and the EPA contractor, it was decided to collect an additional set of water samples for filtered analysis. Since sample containers were not readily available for this extra set of samples, it was decided that some of the field duplicates be used for filtration and subsequent chemical analysis of SVOCs, pesticides, herbicides, PCBs, and hardness. Samples collected for other analyses (VOCs, water bioassay, and all sediment samples) were used as field duplicates as intended. It should be noted that, two samples (R3CM3 and R5AM3) originally collected for MS/MSD analysis were mistakenly treated as a split sample (i.e., same volume used for MS/MSD analysis as well as regular analysis) by the laboratory.

## 6.0 REFERENCES

Sauget Area 2 Sites Group (SA2SG), 2001. Surface Water, Sediment, and Aquatic Biota Field Sampling Plan and Quality Assurance Project Plan, Volume 3, May 21, 2001.

Menzie-Cura, 2001. Ecological risk assessment for WG Krummrich Plant, Sauget-St. Clair County, Illinois, Internal Review Draft, June, 2001.



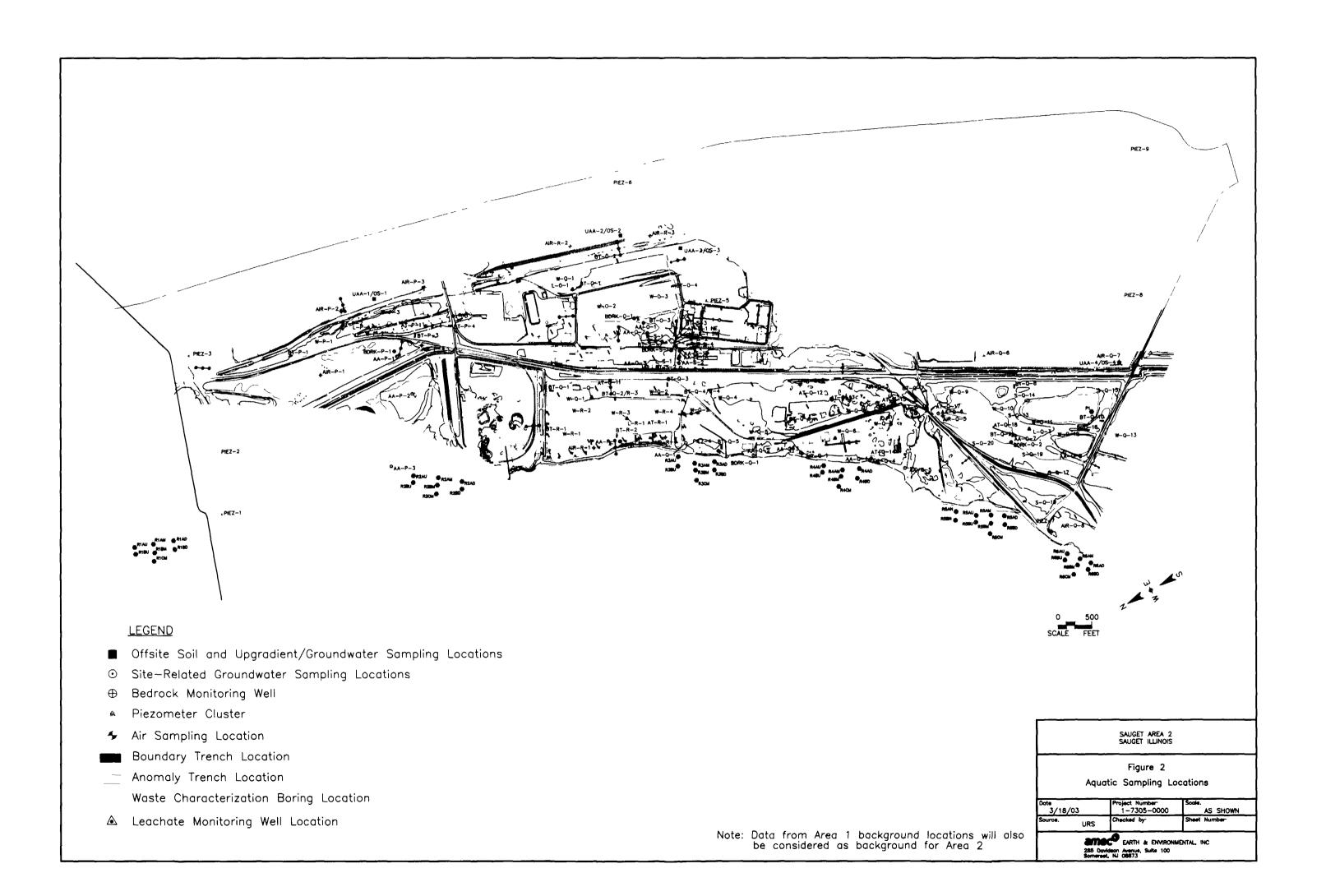


Table 1. GPS Latitudes and Longitudes of Sampling Locations.

(Pond near Site Q)  Bank lat:38.36' 57.9" and long: 90.10' 47.4"
Bank lat:38.36' 57.9" and
long: 90.10' 47.4"
Bank lat:38.36' 26" and
long: 90.11' 0.4"
Bank lat:38.35' 24" and
long: 90.11' 43.1"
•
Bank lat:38.35' 9.4" and
long: 90.12' 7.6"
. 2000
Sediment samples not collected
Sediment samples not collected
Countries Comprise Not Controlled

Table 1. GPS Latitudes and Longitudes of Sampling Locations.

R6CM	38.35' 2.6"	90.12' 22.3"	
R6BM	38.35' 1.6"	90.12' 20.8"	
R6AM	38.35' 1.1"	90.12' 19.8"	
R6BU	38.35' 2.1"	90.12' 18.2"	
R6AU	38.35' 2"	90.12' 18.3"	
R6BD	38.35' 0.4"	90.12' 22.0"	Site Cancelled; no samples collected
R6AD	38.35' 0.4"	90.12' 21.1"	Bank lat: 38.36'3.3" and
			long: 90.11' 16"

### Site ID Key for Riverine Sampling Sites:

Each Site is identified by a 4-digit code: The **first digit** "R" stands for "River" (vs. "P" for "Pond"). The **second digit** (numbers 1-6) refer to the 6 plot areas marked on the map, 1 being the most upstream plot, and 6 the most downstream plot. The **third digit** (A, B, or C) refers to the three transects within each plot area, where A transect is 50' from shore, B transect is 150' from shore, and C transect is 300' from shore into the River. The **fourth digit** (D, M, or U) refers to upstream or downstream sampling site within each transect - "D" downstream sampling location, "M" being midstream location, and "U" being upstream location (the exceptions are in R5 plot, where samples were collected at two additional locations north ("N") of the "U" site and is marked R5BN and R5AN, respectively). Note that the 300' site ("C") is only applicable for mid-stream location ("M").

Example: R3BD refers to the Riverine sampling, third plot area (located immediately below Site R), located approx. 150' from shore, and is in the downstream portion of the river)

Table 2 List of samples collected from Sauget Area 2 sampling locations in Mississippi River and pond near Site Q

Laboratory	4		F	<u> </u>		STL	- GA Wat	er	STL-CA	<u> </u>		STL-GA Sedim	ent		STL-CA	Water	AMEC-CA Sedi	ment	Pennington Biolog
	1	1	Q	T	8	ğ		15	T	Ē	<u> </u>	1		Size	T				
Date of Collection	Sample	Site ID	Sample ID	<b>5</b> 0	Metals, o	Metals, t	Hardness	SVOCs. PCBs. Herb. Pg	Dioxins	VOCs (low, high)	Metals	SVOCS Hert.	70C. P.	Grain St	Dioxins	Bloassay	Bioassay	Bioaccum	Benthics
11/6/2002		R6AD	R6AD1(S/W)	1	1	1	1	1		1	1	1	1	1		1	1	1	1
11/6/2002		R6BU R6AU	R6BU1(S/W) R6AU1(S/W)	1	1	1	1-1-	<del></del>	<del> </del>		1	<del>                                     </del>	1-	1	<b> </b>	1	1	1 1	
11/6/2002		R6BD	None Collected	0	6	6	1 0	0	<del> </del>	0	0	1 0	10	0		0	0	0	
11/7/2002	Sample Field Dup	R6AM R6AM	R6AM1(S/W) R6AM2(S/W)	1	1	1	1	1 1	<b></b>	1-1-	1-1-	1-1-	++	1	<b> </b>		1	1 1	<del></del>
11/7/2002		R6BM	R6BM1(S/W)	1	+	1	1	1	1	1	1	+ ;	1	1	1	<del>-</del>	1	1	
11/7/2002	Sample	R6CM	R6CM1(S/W)	1	1	1	1	1		1	1	1	1	1		1	1	1	
11/7/2002	Sample	R5AD	R5AD1(S/W)	1_1_	1	1	1	11		0	0	0	0	0		1	0	0	<b></b>
11/8/2002	Sample	R5AU	R5AU1(S/W)	1	1	1	1	1		1	1	1	1	1		1	1	1	
11/8/2002		R5AM	R5AM1(S/W)	1	1	1	1	1		1	1	1	1	1		1	1	1	
11/8/2002		R5AM R5BD	R5AM3(S/W) R5BD1(S/W)	1	+	1	1	1		1	1	1 0	1 0	0	{ <u>-</u>	NA 1	NA O	NA 0	
11/9/2002		R5BM	R5BM1(S/W)	1	1	1	1	1	1	1	1	1 1	1	1	1	1	1	1	
11/9/2002	Sample Rinse Blank	R5BU R5BU	R5BU1(S/W) R5BU4(S/W)	1	+	1	1	<del></del>	1-1	1	1-	1-1-	NA	NA	1-1-	NA	NA.	NA	<del></del>
11/9/2002		R5CM	R5CM1(S/W)	1	1	1	i	1		1	1		1	1		1	1		
11/10/2002	Sample	R4AD	R4AD1(S/W)		1		1	1	<u> </u>	1	1	1	1	1		1	1		
11/10/2002		R4BD	R4BD1(S/W)	1	1	1 1	1			1	1 1		1 1	1		1		1	
11/10/2002		R4AM	R4AM1(S/W)	1	1	1	1	1		1	1	ī	1	1		1	1	1	
11/11/2002	Sample	R4AU	R4AU1(S/W)	1	1	1	1	1		-		<del>                                     </del>	1	1		1	1		
11/11/2002	Sample	R4BU	R4BU1(S/W)	1	1	1	1	1		1	1	1	1	1		1	1	1	
11/11/2002	Sample	R4BM	R4BM1(S/W)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11/11/2002		R4CM R4CM	R4CM1(S/W) R4CM2(S/W)	1	1	1	+	1-1-	<b> </b>	1	1	1-1-	1	1	<del> </del>		1	1-1-	
111112002	, man oup	- 1-CM	THOME (STY)		<u> </u>		'-	<del>'</del>		<u> </u>	<u> </u>	<u> </u>	广	Ľ				<u> </u>	
11/12/2002		R3AD	R3AD1(S/W)	1	1	1	1	1		1	1	1	1	1		1	1	1	
11/12/2002	Sample Rinse Blank	R3BD	R3BD1(S/W) R3BD4(S/W)	1	1	1	1	1	1-1-	1	1	1 1	NA	NA NA		NA NA	NA NA	NA NA	
11/12/2002		R3AM	R3AM1(S/W)	1	1	1	1	<del></del>	<del> </del>	1	1	1 1	1	1		1	1	1	
11/12/2002		R3BM	R3BM1(S/W)	1	1	1	1	11	1	1	1	1	1	1	1	1	1	1	
11/13/2002	Sample	R3CM	R3CM1(S/W)	1		-	1	1		1	<del>                                     </del>		1	1			1	1-1-	
11/13/2002	MS/MSD	R3CM	R3CM3(S/W)	1	Ī	1	1	1		1	1	1	NA	NA		NA	NA	NA	
11/13/2002		R3AU	R3AU1(S/W)	1	1	1	1	1		1	1	1	1	1		1	1	1	
11/13/2002		R3BU R2AD	R3BU1(S/W) R2AD1(S/W)	1	1	1	1			1	1		1	1		1	1	1	
11/13/2002		R2BD	R2BD1(S/W)	1	1	1	1	1		1	1	1	1	1		1	1	1	
11/14/2002	Samole	R2AM	R2AM1(S/W)	1	1	1	1		<del> </del>	1	1	1	1	1	<del>  </del>	1	1	1	
11/14/2002	Field Dup	R2AM	R2AM2(S/W)	1	1	1	1	1		1	1	1	1	1		1	1	1	
11/14/2002		R2BM	R2BM1(S/W)	1	1	1	1	1	1	1	1	1	1	1	1	1	!-	1	
11/14/2002		R2CM R2AU	R2CM1(S/W) R2AU1(S/W)	1	+	1	1	1		1	1	1	1	1		1	1	1	
11/15/2002		R2BU R1AD	R2BU1(S/W)	1	1-1	1	1	1	li	1	1	1 1	1-	1			+	1	
11/15/2002		RIAD	R1AD1(S/W) R1AD4(S/W)	1	1	7	1	1		1	1	1	NA	NA.		NA.	NA.	NA NA	
11/15/2002	Sample	RIBD	R18D1(S/W)	1	1	1	1	1		1	1	1	1	1		1	1	1	
11/15/2002	Sample	R1AM	R1AM1(S/W)	1	1	1				1	1	11	1	1	<b> </b>	_1_	1	1	
11/16/2002	Field Dup	R1BM	R1BM2(S/W)	1	1	1	1	1	1	1.	1	1	1	1	1	,	1	1	
11/16/2002	Sample	R1BM	R1BM1(S/W)	1	1	1	1	1	1	1	1	1	1	I	1	1	1	1	
11/16/2002		R1BM R1CM	R1BM1(S/W) R1CM1(S/W)	1	1	1			1	1	1	1-1-		1	1	1			
11/16/2002	Rinse Blank		R1CM4(S/W)	1	-	1	1	1 1		1	1	1	NA	NA		NA.	NA	NA	
11/16/2002	Sample	RIAU	R1AU1(S/W)	1	1	1	1	1		1	1	1	1	1		1	1	1	
11/17/2002	Samole	R1BU	R1BU1(S/W)	1	1	1	1	<del></del>	<b>}</b> {	1		1	1	1		1	1	1	
11/17/2002	Sample	R5AN	R5AN1(S/W)	1	1	1	1	1		1	1	1	1	1		1	1	1	
11/17/2002		R5BN	R5BN1(S/W)	1	1-	1	1	7		1	1	1	1	1		1		1	
11/18/2002	Samole	P1	P11(S/W)	1	<b>-</b> -	1	1	1	1-1	1	1	1	-	1	1		1	1	
11/18/2002	Sample Field	P1	P12(SW)	1	0	0	1	1		1	1	1	i	1		1	1	1	
11/18/2002	Rinse Blank	P1	P14(S/W)	1	1	1	1			1	1	1		1					
11/18/2002	MS/MSD	P1	P11(S/W)	_1	_1_	1	1	1		1	1	1	NA	NA					
TOTAL SA				44	44	44	45	45	7	42	42	42	42	42	7	44	43	43	2
TOTAL FIE				5	4	4	4	4	1	5	5	5	5	5	1	5	5	5	
TOTAL MS	/MSD ISE BLANKS		<del></del>	5	5	5	3 5	<u>3</u>	2	3 5	<u>3</u>	<u>3</u>	1 NA	NA	1 2	0 NA	O NA	NA	
TO TAL KIN	OF BEVIND		<del> </del>					SVOCs,		<u> </u>		<u>*</u>	· <u>··</u>	<del>  ````</del>		-,•	194	1367	
}_							1	PCBs,				1	} ,						1
Fish Samp		ole fich				Metals		Herb/Pest 1	Dioxin	Lipids 1						l			
	Blue gill - wh Black Bullhe		<del> </del>			1		1	1	1									
	Carp - Fillets					1		1	1	1									
	L						]			]			ـــــــا	لــا				L	

Table 3. Date and time of sample collection, and weather and surface water conditions during sampling.

Site ID	Sampling Date	Start Time	Weather	Surface Water Conditions	Water Depth (ft)
R6AD	11/06/2002	8:20	Cloudy, light breeze	Swift currents	17
R6AU	11/06/2002	11:58	Partly cloudy, light breeze, low 50s	Swift currents	18
R6BU	11/06/2002	14:20	Partly cloudy, light breaze	Calm, light currents	31
R6AM	11/07/2002	8:45	Sunny, light breeze, 46 °F	Calm, slow currents	16
R6BM	11/07/2002	10:45	Sunny, light breeze	Smooth, slow currents	34
R6CM	11/07/2002	13:00	Sunny, cool, light breeze	Moderately currents	32
R5AD	11/07/2002	14:50	Windy, sunny, 67°F	Relatively calm, moderate currents	6
R5BD	11/08/2002	8:00	Sunny, 60s, light breeze	Moderately fast currents, calm	14
R5AM	11/08/2002	9:10	Sunny, light breeze, warm	Moderately fast currents, calm	3
R5AU	11/08/2002	12:00	Sunny, warm, moderate breeze (7-10 mph)	Swift currents	5
R5CM	11/09/2002	8:05	Cloudy, moderate breeze, upper 50s	Light movement from wind, swift currents	28
R5BM	11/09/2002	9:15	Cloudy, windy, cold	Relatively calm	18
R5BU	11/09/2002	11:10	Cloudy, windy, cold	Relatively fast currents	20
R4AD	11/10/2002	8:15	Partly cloudy, no breeze, thick fog on water	Moderately fast currents, calm	16
R4BD	11/10/2002	9:30	Light rain, gentle breeze	Moderately fast currents, calm	12
R4AM	11/10/2002	11:00	Cold, 5-10 mph wind, cloudy, occasional rain	Swift currents	11
R4BM	11/11/2002	8:07	Sunny, cold, mid-40s	Moderately fast currents, calm	11
R4CM	11/11/2002	9:30	Sunny, light breeze, mid-40s	Moderately fast currents, calm	14
R4AU	11/11/2002	13:00	Partly cloudy, cold, light wind	Smooth, light current	6
R4BU	11/11/2002	15:10	Sunny, light breeze, cold	Moderately fast currents, calm	10
R3AD	11/12/2002	8:22	Overcast sky, 40's, light wind	Smooth and muddy	9
R3BD	11/12/2002	10:45	Cold, 40-50; clear, light wind	Smooth and muddy	15
R3AM	11/12/2002	12:33	cold 50s; clear	Smooth and muddy	14
R3BM	11/12/2002	13:40	Sunny and clear, light wind	Light Chop	13
R3CM	11/13/2002	8:10	Low 40s, sunny, light wind	Smooth and muddy	13
R3AU	11/13/2002	9:25	Cold, 40-50, light wind, sunny	Light chop, muddy	17
R3BU	11/13/2002	10:55	Sunny and clear, light wind	Light chop, muddy	5

Table 3. Date and time of sample collection, and weather and surface water conditions during sampling.

R2AD	11/13/2002	13:20	Sunny and clear, light wind	Light chop, muddy	12
R2BD	11/13/2002	14:50	Sunny and clear, light wind	Light chop, muddy	20
R2AM	11/14/2002	8:10	Cold, 40s, cloudy, light wind	Light chop, muddy	15
R2BM	11/14/2002	9:45	Low 50s, partly cloudy, light wind	Light chop, muddy	20
R2CM	11/14/2002	11:00	Mid-50s, partly cloudy, light wind, sunny	Light chop, muddy	19
R2AU	11/14/2002	12:45	Partly cloudy, light wind, sunny	Light chop, muddy	6
R2BU	11/15/2002	8:10	Overcast sky, 40's, light wind	Light chop, muddy	21
R1AD	11/15/2002	9:45	Overcast sky, 40's, light wind	Light chop, muddy	11
R1BD	11/15/2002	12:45	Cloudy, 40's, 15-mph wind	Light chop, muddy	29
R1AM	11/15/2002	14:40	Cloudy, 40's, 15-mph wind	Light chop, muddy	2
R1BM	11/16/2002	7:50	Clear and sunny, 40s, light wind	Light chop, muddy	21
R1CM	11/16/2002	12:05	Partly cloudy, 5-10 mph wind	Strong currents	24
R1AU	11/16/2002	13:30	Partly cloudy, 5-10 mph wind	Light chop, muddy	26
R1BU	11/17/2002	8:05	Mid-30s, partly cloudy, sunny with light wind	smooth and muddy	28
R5AN	11/17/2002	9:45	Light wind (0-5 mph), partly cloudy	Light chop, muddy	10
R5BN	11/17/2002	11:00	Light wind (0-5 mph), partly cloudy, 40s	Light chop, muddy	17
P1	11/18/2003	8:55	Low 40's, light wind, partly cloudy	smooth and muddy	0.5

Table 4 Water quality parameters measured at bottom, mid-depth, and surface waters of Mississippi River sampling sites and Pond site

	Bottom							lepth			Surface							
Site ID	Depth ft	Cond mS/cm	рН	DO mg/L	Temp °C	Turbidity NTU	Depth ft	Cond mS/cm	рН	DO mg/L	Temp °C	Turbidity NTU	Depth ft	Cond mS/cm	рН	DO mg/L	Temp °C	Turbidity NTU
R6AD	16	0 434	7 80	11 5	8 0	50	8	0 433	7 95	11 7	80	40	1	0 432	8 30	11 7	80	50
R6AU	16	0 433	7 70	117	80	35	8	0 431	8 10	117	80	26	1	0 429	8 40	11.7	80	26
R6BU	30	0 429	8 00	12 1	8 1	30	15	0 428	8 40	119	81	26	1	0 427	8 30	119	81	28
R6AM	15	0 430	7 50	119	78	36	8	0 428	8 31	118	78	31	1	0 428	8 36	119	78	36
R6BM	33	0 430	7 71	127	79	30	16	0 434	8 34	120	80	28	Ó	0 433	8 36	120	80	26
R6CM	31	0 432	8 04	12 4	81	27	16	0 432	8 38	12 1	81	26	0	0 430	8 43	120	81	23
ROCIVI	31	0 430	0 04	12 4	01	21	10	0 432	0 30	12 1	01	20	Ū	0 430	0 40	120	01	23
R5AD	5	0 439	7 90	123	8 3	23	3	0 435	8 04	12 1	83	27		0 434	8 07	12 1	83	27
R5BD	13	0 465	7 51	11 8	79	189	6	0 465	8 15	118	79	150	0	0 461	8 40	11 7	79	169
R5AM	2	0 463	8 05	118	8 1	20	15	0 461	8 38	11 6	82	28	0	0 460	8 22	116	82	24
R5AU	4	0 473	8 27	12 1	8 2	50	2	0 471	8 13	120	82	27	0	0 470	8 14	12 0	8 2	25
R5CM	27	0 431	7 40	13 5	8 2	33	13	0 430	8 37	126	8 2	32	0	0 430	8 21	12 4	83	33
R5BM	17	0 436	8 08	128	83	34	8	0 437	8 53	12 4	83	30	05	0 438	8 43	12 4	8 4	30
R5BU	19	0 437	8 02	13 1	8 5	38	10	0 436	8 39	128	85	24	0 0	0 438	8 56	127	8 5	25
R5AN	9	0 475	8 14	13 1	83	29	5	0 476	8 25	14 1	83	59	1	0 475	8 38	14 2	83	73
R5BN	16	0 471	8 12	13 6	83	24	8	0 471	8 41	14 1	83	22	1	0 469	8 43	14 2	83	20
R4AD	15	0 466	7 21	12 5	90	55	8	0 462	8 24	118	90	59	0	0 458	8 40	119	90	46
R4BD	11	0 444	8 20	12.2	90	38	5	0 450	8 37	119	90	31	1	0 451	8 52	119	90	34
R4AM	10	0 468	8 20	12 1	91	29	5	0 464	8 13	118	91	30	1	0 462	8 23	11.7	91	31
R4BM	10	0 445	7 83	126	87	159	5	0 449	8 34	126	88	122	· 1	0 444	8 17	126	88	117
R4CM	13	0 422	7 87	126	88	27	7	0 432	8 32	127	88	25	i i	0 429	8 28	126	88	24
R4AU	5	0 464	7 92	128	92	24	3	0 464	8 19	128	92	23	1	0 463	8 35	127	92	23
R4BU	9	0 468	7 85	126	93	20	5	0 473	8 39	128	93	21	1	0 474	8 38	127	93	21
11450	J	0 400	, 00	12.0	3.0	20	J	0 470	0 00	12.0	30	21	•	0414	0 00	12.1	9.0	21
R3AD	8	0 471	7 72	12 2	88	24	4	0 468	8 01	123	88	22	1	0 467	8 33	123	88	26
R3BD	14	0 455	8 09	123	89	31	7	0 453	8 39	126	89	26	1	0 452	8 38	126	89	28
R3AM	13	0 463	8 09	123	90	25	6	0 461	8 38	124	9 1	25	1	0 459	8 36	12 4	9 1	29
R3BM	12	0 463	7 93	12 4	91	25	6	0 457	8 44	12 4	9 1	24	1	0 457	8 35	12 4	9 1	24
R3CM	12	0 451	8 11	12 4	86	26	6	0 455	8 44	125	86	25	1	0 454	8 39	12 5	87	26
R3AU	16	0 474	8 05	123	8 7	421	8	0 481	8 16	12 1	87	48	1	0 471	8 19	12 1	87	57
R3BU	4	0 467	8 26	12 5	88	25	2	0 463	8 07	125	88	31	1	0 463	8 26	12 4	89	3
R2AD	11	0 447	8 25	12 9	90	19	5	0 442	8 39	126	90	26	1	0 442	8 47	12 6	90	23
R2BD	19	0 448	7 85	129	9 1	23	10	0 445	8 43	12 6	91	23	1	0 445	8 37	12 5	91	24
R2AM	14	0 455	8 03	124	87	48	7	0 453	8 39	12 1	87	34	1	0 451	8 38	12 1	87	33
R2BM	19	0 455	7 93	12 2	88	27	10	0 454	8 36	12 2	88	32	i	0 447	8 36	122	88	28
R2CM	18	0 457	8 0 8	123	88		9	0 454	8 50	12 4	88	21	1	0 453	8 44	123	89	19
R2AU	5	0 462	8 16	127	91	25	3	0 456	8 25	123	91	29	1	0 456	8 45	123	91	28
R2BU	20	0 446	7 80	11.7	89	19	11	0 444	8 42	11 8	89	27	1	0 441	8 37	117	89	26
11200	20	0 440	, 00		0.5	,5		0 444	0 42	110	0.5	21	'	0 447	0 3,	117	0.5	20
R1AD	10	0 445	8 00	116	89	13	5	0 443	8 4 1	119	89	17	1	0 442	8 36	119	89	17
R1BD	28	0 439	7 90	119	89	13	14	0 442	8 43	120	89	19	1	0 440	8 42	120	8 9	16
R1AM	1	0 437	8 05	118	88	20							1					
R1BM	20	0 445	7 89	12 1	8 4	28	10	0 433	8 41	12 4	8 4	29	1	0 433	8 40	12 4	8 4	28
R1CM	23	0 431	7 77	12 2	85	219	12	0 431	8 39	12 6	86	121	1	0 429	8 41	126	86	101
R1AU	25	0 428	7 86	12 2	86	24	13	0 427	8 49	124	8 6	25	1	0 429	8 31	12 4	86	25
R1BU	27	0 469	7 90	14 1	8 2	32	14	0 466	8 36	14.5	8 2	34	1	0 461	8 32	14 4	82	51
P1														0 366	8 67	13 5	78	>1000

Table 5 Summary of field observations of sediment properties and benthic organisms.

Site ID	Grain Size	Sediment Condition	Sediment Organisms
R6AD	Mostly silt with some clay (fluid mud not sticky) and little sand	Dark oaky brown sediment, slight organic odor, high organic carbon	Found Hexagenia (mayfly larvae), sieved 5-L of sediments for benthic invertebrate identification
R6AU	More clay than silt, <2% sand	Brown, slight organic odor, high organic carbon	None found
R6BU	Silt with some clay, slightly sticky	Brown, slight organic odor, coal particles some organic carbon	None found
R6AM	Silt with some clay, <5% sand	Dark gray and brown with coal particles, organic odor some organic carbon	None found
R6BM	Fine sand and silt	Light gray, low organic carbon, iron odor, some coal particles	None found
R6CM	Medium to coarse sand with small gravels	Low organic matter, some coal, no odor	None found
R5AD	Sediment samples not collected	NA	None found
R5BD	Sediment samples not collected	NA	None found
R5AM	Fine sand with silt, some lumps of clay	Dark oaky brown, no odor, low organic carbon	None found
R5AU	Very fine silt and clay in top 1", fine to medium sand below	Dark oaky brown, no odor, low organic carbon	None found
R5CM	Medium to coarse sand	Very low organic carbon, no odor, medium brown	None found
R5BM	Fine to medium sand, some silt	Medium brown, slight biological odor, low organic carbon	None found
R5BU	Fine silt with clay in top 1", fine to medium sand below	Grayish brown, oil sheen, no odor, high organic carbon	None found
R5AN	Silty clay in the top 1/2", silty sand below	Dark gray in top 1/2" with decay odor, remainder was gray with no odor, some organic carbon	None found
R5BN	Silty clay at top 1", coarser below	Dark brown and gray, some organic matter, decay odor	None found
R4AD	Fine to medium sand with some gravel	Broken shells on top layer, no odor, low organic carbon	None found
R4BD	Medium to coarse sand, homogeneous	Low organic carbon, no odor	None found
R4AM	Fine to medium sand with small pebbles	Low organic carbon, no odor	Zebra mussels attached to some larger rocks obtained in sediment grabs
R4BM	Medium to coarse sand, some silt	Low organic carbon, homogeneous, no odor	None found
R4CM	Medium to coarse sand with some large stones on top layer	Top layer brown, more gray towards bottom, well sorted	Zebra mussel shell fragments
R4AU	Medium to coarse sand with gravel	Brown in top 1/2", gray below, low organic carbon	None found

Table 5 Summary of field observations of sediment properties and benthic organisms

R4BU	Medium to coarse sand, well sorted	Low organic matter, no odor	No organisms, some shells
R3AD	Fine to medium sand in top, coarse sand below	Some organic carbon wood fragments, petroleum odor	None found
R3BD	Coarse sand, well sorted, grains rounded	Tan color, clean, no odor, very low organic carbon	None found
R3AM	Fine silty sand with some clay	Dark gray, darker color with depth, smell of decomposition and hydrocarbons, twigs	None found
R3BM	Fine silty sand and clay in top 2*, medium coarse sand with silt below	Dark gray, no odor low organic carbon	Shells fragments, no living organisms
R3CM	Coarse sand, well sorted, rounded	Brown, no odor, very low organic carbon	None found
R3AU	Silty clay with some fine sand	High organic carbon, decomposition odor, dark brown, dark gray	Possible tracks of burrowing organisms, no living organisms found
R3BU	Silty clay in top 1", coarse sand below	Substantial organic matter and dark gray in top 1", no organic matter and brown below	None found
R2AD R2BD	Sticky clay with small silt and low sand Silty sand, as well as fine to medium gravel	Some organic matter, gray Some organic matter, brown, no odor	None found Catisfly larvae on larger rocks (not in sediments)
R2AM	Silt with fine sand	Some organic carbon, dark gray, slight decomposition odor, twigs in sediments	None found
R2BM	Medium sand, sorted, rounded	Very low organic carbon, tan no odor	None found
R2CM	Medium to coarse sand, sorted	Very low organic carbon, tan, no odor	None found
R2AU	Fine sand, well sorted	Very low organic carbon, brown, no odor	None found
R2BU	Fine to medium sand, well sorted	Low organic carbon, gray, no odor	None found
R1AD	Silty clay with some fine sand	Some organic carbon, dark gray, hydrocarbon odor	Zebra mussel shells
R1BD	Silty clay with some fine sand	Gray, no odor, some organic carbon	Corbicula (Asiatic clam) in sediments, 10-L of sediments sieved for benthics
R1AM	Fine to medium sand with some silt	Some organic matter, dark gray, no odor	Shell fragments
R1BM	Coarse sand with gravel, well sorted	Some organic matter, tan, no odor	Catisfly larvae attached to large rocks obtained in grab, Zebra mussels, Clanana
R1CM	Coarse sand with gravel	Low organic matter, tan, no odor	Shell fragments only
R1AU	Medium to coarse sand with gravel	Some organic matter, tan to gray, no odor	Shell fragments, Odinada (damsel fly)
R1BU	Coarse sand with gravel, clean, well sorted	Low organic matter, tan, no odor	None found
P1	Silty clay, sticky	Some organic matter, dark gray, sticky	None found

# Appendix I Addendum Describing the Changes to the Aquatic Field Sampling Plan

### **VOLUME 3**

### SURFACE WATER, SEDIMENT AND AQUATIC BIOTA SAMPLING PROJECT PLANS

### Addendum 2

In the Site Sampling Plan (SSP) and Aquatic Biota Sampling Project Plans approved by USEPA Region V, the Sauget Area 2 Sites Group (SA2SG) outlined a program to collect surface water and sediment samples from three areas within the Mississippi River that were believed to be receiving groundwater discharged from site-related locations on the river bank.

In June 2001, Solutia independently completed an aquatic ecological risk assessment for the Mississippi River downgradient of Sauget Area 2 Site R and areas east of Site R as part of the Krummrich investigation. That investigation consisted of the same type of investigative activities (i.e. surface water and sediment sampling, bioassays, fish tissue analysis) as originally designed for the Sauget Area 2 Sites project. Multimedia samples from the Krummrich investigation were collected from nine locations adjacent to Site R, as well as from upstream and downstream locations. The findings of the risk assessment can be found in the Focused Feasibility Study, Interim Groundwater Remedy, Sauget Area 2 Sites O, Q, R and S (December 2001) and the Ecological Risk Assessment for WG Krummrich Plant, Sauget-St. Clair County, Illinois, Internal Review Draft (Menzie-Cura, June 2001.

The findings of the Krummrich ecological risk assessment indicated that impacts to ecological receptors were occurring within the sampling area, though those impacts were generally seen within 300 feet of the shore. In general, then findings of the toxicity testing indicated that the majority of impacts were observed within 150 feet of the shore. The specific findings of the assessment were that planktonic species were determined to be at a potential risk from exposure to surface water at the sediment/surface water interface, and that benthic invertebrates were also at a potential risk from exposure to sediment based on toxicity tests. Fish species were identified as being at potential risk from exposure to sediment based on the results of toxicity testing. It was also shown that fish are accumulating a small number of compounds that were detected in study area sediment, but not detected in reference sediments. However, it was concluded that there was a low risk to wildlife foraging on the media within the

study area. Organic compounds (including volatile organics compounds, semi-volatile organic compounds and one herbicide) were elevated at surface water sampling locations that indicated toxicity. Organic compounds (including volatile organics compounds and herbicides) were elevated at sediment stations with identified toxicity.

Based on discussion with the USEPA and IEPA, the scope of the planned aquatic sampling program has been modified in order to 1) refocus the sampling protocols in order to utilize the findings of the Krummrich work downgradient of Site R, and 2) utilize the findings of the Krummrich work, in conjunction with the new data obtained from this program, to evaluate the potential for ecological impacts associated with potential groundwater discharge areas into the river. As such, the following changes are noted in the Surface Water, Sediment and Aquatic Sampling Project Plans (Volume 3). This Addendum will constitute the only documentation of these changes and upon approval by USEPA will be considered an incorporated part of the Volume 3 Sampling Project Plans. The changes are noted as follows:

- 1. Sediment and surface water samples will be collected from six (6) sampling plots spaced along the extent of the river. One sampling plot will be located immediately upstream of Site P. One sampling plot will be located riverward of the southern end of Site P. Three sampling plots will be located riverward of Site Q, with one plot riverward of the fly ash ponds, one plot riverward of the construction fill area, and one plot riverward of the fill area at the southern end of Site Q. One sampling plot will be placed immediately downstream of Site Q. Within each plot, three samples will be located along a transect placed 50 feet from the riverbank. Three samples will be located along a transect placed 150 feet from the river bank and one sample will be located along a transect 300 feet from the riverbank (see the attached Figure) for a total of seven (7) samples in each plot and a grand total of forty-two (42) samples;
- 2. Section 1.2 of the SW/Aquatic/Biota Field Sampling Plan (AFSP) is hereby modified to indicate the reconnaissance survey will not be conducted. Instead, an assessment of river/sediment habitat will be conducted just prior to the field collection of the surface water and sediment samples. The habitat assessment survey will consist of a qualitative evaluation of water quality and sediment substrate type and will focus on those sections of the river where the sampling plots will be located. Water quality parameters using a

Horiba or similar device will be collected in each of the sampling plots. Sediment will be collected using a grab sampler and brought into the boat for evaluation. Sediment will be qualitatively characterized as to grain size distribution, presence of organic matter and the presence of macroinvertebrates.

- 3. Section 1.3 of the (AFSP) is hereby modified to indicate that each of the 42 surface water samples will be analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, PCBs, and herbicides/pesticides. One sample from each sampling plot will be analyzed for dioxin. The dioxin sample will be collected at the center sampling point of the 150-foot transect of each sample plot. Sample collection techniques will remain as specified in Section 1.3.
- 4. Section 1.4 of the AFSP is hereby modified to indicate that each of the 42 sediment samples will be VOCS, SVOCs, metals, PCBs, and herbicides/pesticides. One sample from each sampling plot will be analyzed for dioxin. The dioxin sample will be collected at the center sampling point of the 150-foot transect of each sample plot. Sample collection techniques will remain as specified in Section 1.4.
- 5. Section 1.5 of the AFSP is hereby modified to indicate that samples will only be collected for benthic invertebrate community structure analysis if field observations of collected sediments during the habitat survey indicate that the substrate is substantially different from those sediments observed in the Krummrich work. If the habitat survey of the sampling plots to be conducted at the beginning of the fieldwork indicates that a different substrate is present, then minor relocation of a sample location for chemical and bioassay analyses may occur to address the differing habitat. A benthic sample would be collected at that location. This modification is not intended to add more sampling locations to each sampling plot, but instead to allow for flexibility in the placement of the 7 sample locations within each sampling plot, should substantially different habitat be observed.
- 6. Section 1.6 of the AFSP is hereby modified to indicate that sediment and surface water toxicity tests will only be conducted at each of the 42 sampling locations. Each of the

toxicity tests and bioaccumulation tests will be conducted according to the protocols specified in Section 1.6.

- 7. Section 1.7 of the AFSP will not be implemented and is hereby deleted from the program.
- 8. Sediment and surface water samples will continue to be collected in accordance with the approved QAPP found in the Volume 3 Project Plans. The location of each sampling location will be located using GPS equipment.
- 9. The focus of the sediment sampling program is the top several inches of the sediment profile. If the sediment sampling device to be used in the program is accessed from the upper portion of the device, then samples will be collected from the upper six inches of the collected sediment. If the sampling device is access from the bottom of the sampling device, then the profile of interest will be the sampling depth of the sampling device. In that instance, the collected depth of the sampling device will be measured at each sediment sampling location.
- 10. The data from the sampling will be evaluated in accordance with the protocols outlined in Section 12 of the SSP.

Approved	Date

### **VOLUME 3**

### SURFACE WATER, SEDIMENT AND AQUATIC BIOTA SAMPLING PROJECT PLANS

### Revision 2 - Addendum

The following changes are noted in the Surface Water, Sediment and Aquatic Sampling Project Plans (Volume 3), based on the results of the August 2, 2001 meeting with USEPA and follow-up discussions with Dr. James Chapman of the USEPA. This Addendum will constitute the only documentation of these changes and will be considered an incorporated part of the Volume 3 Sampling Project Plans. The changes are noted as follows:

- Fish sampling for tissue residue analysis will include the collection of small-mouth buffalo for whole body analysis for the Ecological Risk Assessment and collection of channel catfish filets for the Human Health Risk Assessment.
- Small gizzard shad (4 10" in length) will be collected to support the characterization of
  potential ecological risks to mink and large gizzard shad (8 14" in length) will be
  collected to support the characterization of potential ecological risks to osprey.
- 3. Fish collection activities in each sampling area will be pursued until such time that sufficient fish for the location can be obtained. Should a sufficient number of smaller size fish not be collected using nets, then other means of collection, including electroshocking may be utilized. Should it be necessary, electroshocking may occur from the banks, but only adjacent to the previously identified sampling locations.

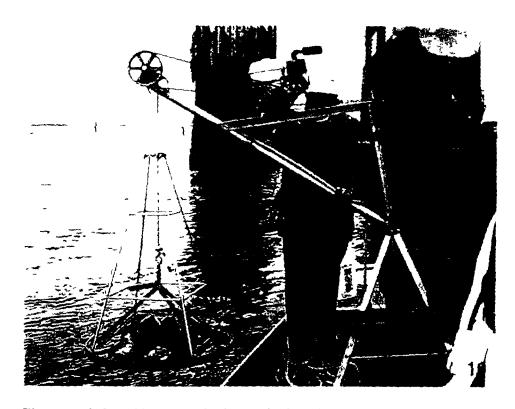
	Appendix II
Representative Field Photograph	es of Sampling Sites, Equipment, and Procedures



Figure 4-1 Van Veen grab sampler used for sediment sampling



Figure A-2 Reconnaissance survey conducted on 11 5 2002



**Figure 4-3** Van Veen sampler being deployed for sediment collection at RTAU near Interstate Bridge

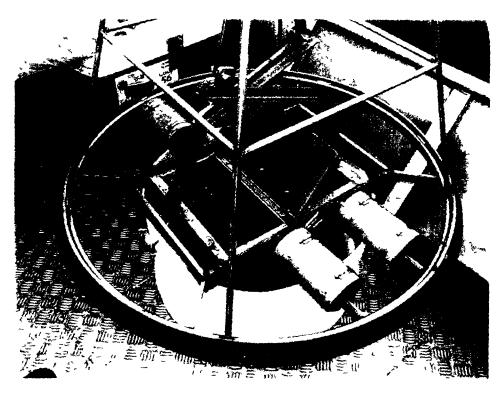
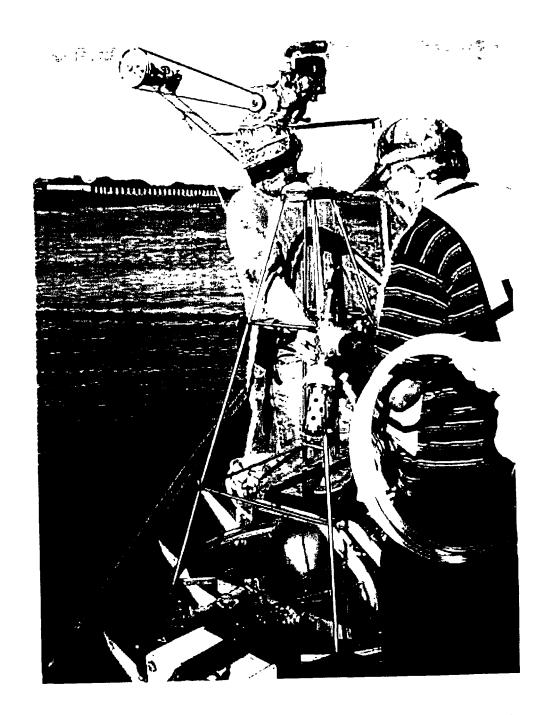


Figure A-4. Sediment grabs from few sites consisted of very coarse sand with gravel



**Figure A-5.** The Horiba water quality meter and water sampling tube being attached to the Van Veen sampler (R5AD).



Figure 4-6. Sediment Samples being homogenized at R5AU Site

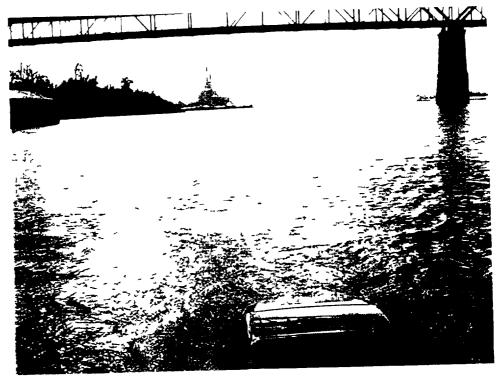


Figure 1-7. R1CM looking south Railway bridge in the background

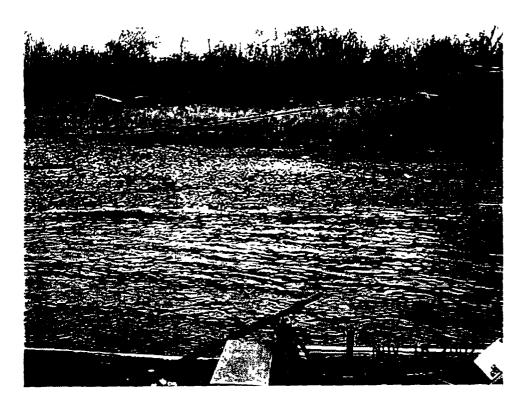


Figure A-8. R1AM. showing rocky shoreline and barge



**Figure A-9.** R1BD - looking toward the main channel. In the background is the boat ramp, and to the left is the railway bridge

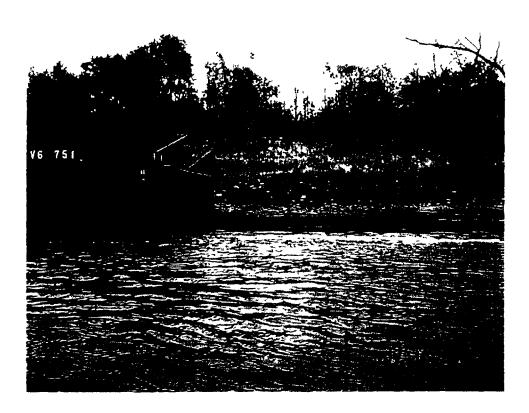


Figure A-10. R1BD-looking toward riverbank



Figure A-11. R2AU – looking toward riverbank

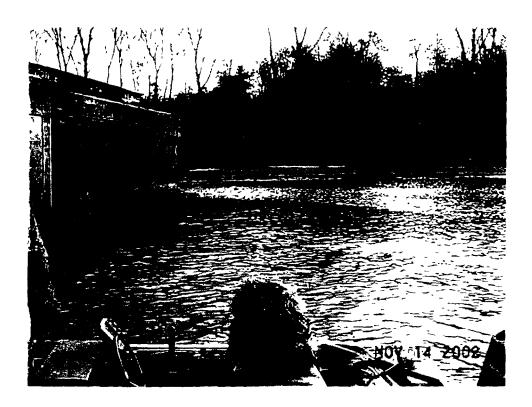
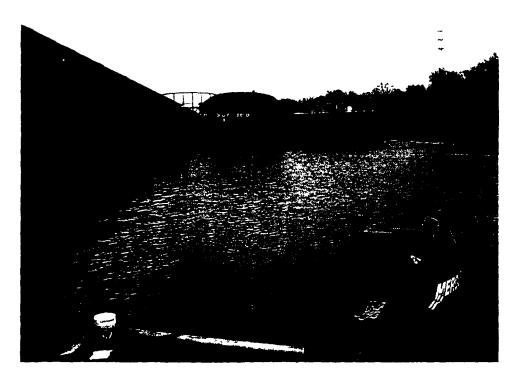
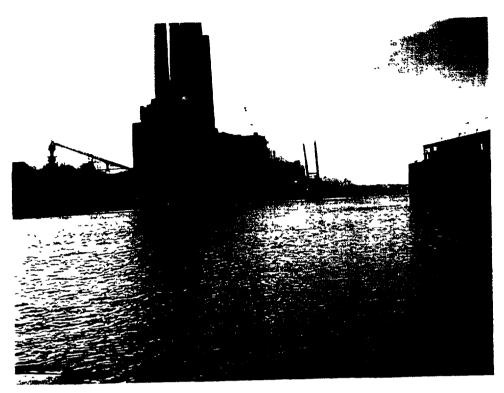


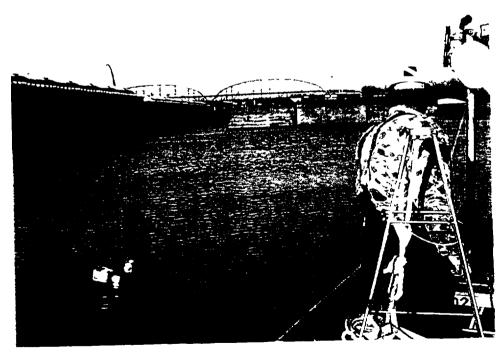
Figure A-12. R2BM – looking toward riverbank



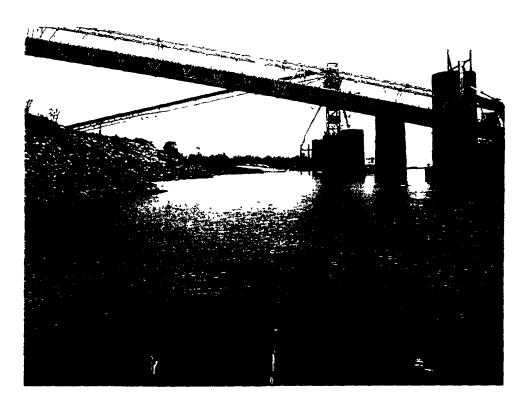
**Figure A-13.** R2AM – Sampling locations were sometimes constrained by the presence of barges in this area.



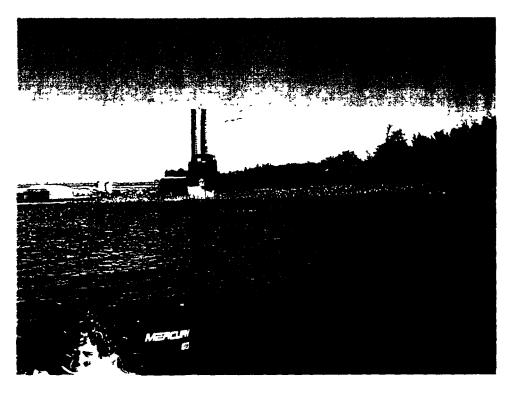
**Figure A-14.** R2BM - looking downstream. Coal loading operations at the power plant produced dust in the air seen here



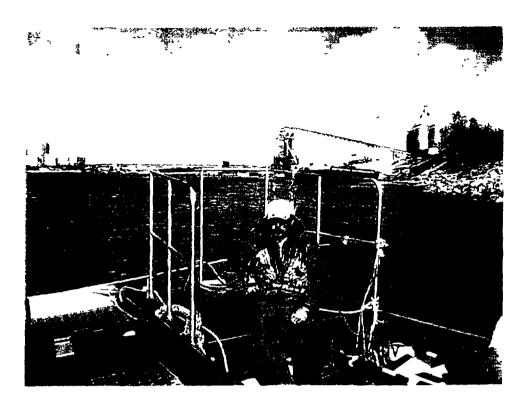
**Figure A-15.** R2BD - working around barges Floatings were used to mark sampling locations



**Figure A-16.** R3AD – showing loading area on the downstream side of the R3 plot area, with boat ramp (R4 plot area) in the background



**Figure A-17** Upstream view from R3AU site, showing power plant and a jetty



**Figure A-18** Upstream view from R4AU site. Two boats were tied side-by-side during sampling.

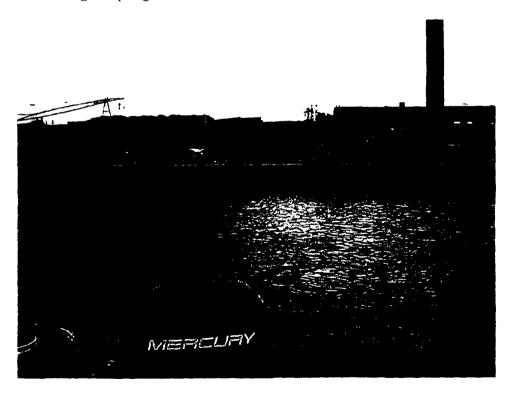


Figure A-19. R4BD, bank showing boat ramp

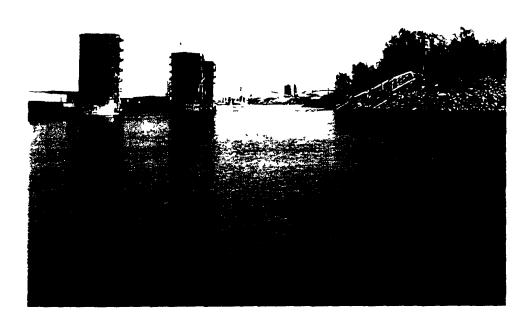


Figure A-20. R5BN - upstream view



Figure A-21. R5BN – looking toward the inverbank

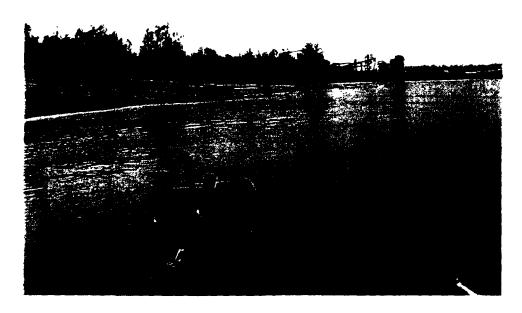
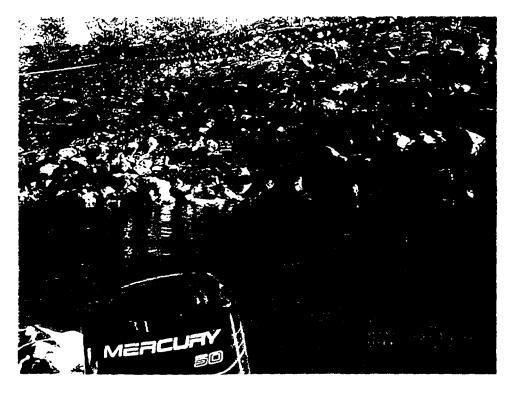


Figure A-22. Additional sampling site (R5AN site) – facing downstream.



**Figure A-23.** R5AD - The rocks seen on the bank were present on bottom as well and sediment samples could not be collected here.

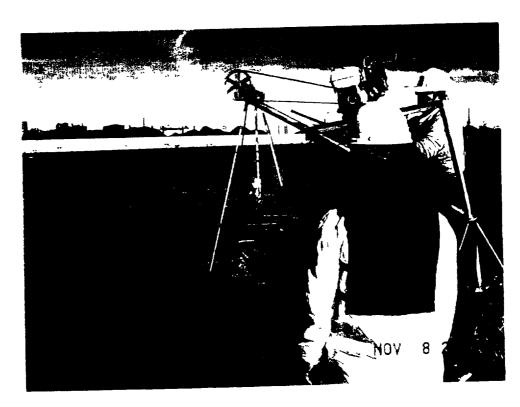


Figure A-24. Sediment sampling at R5AM.

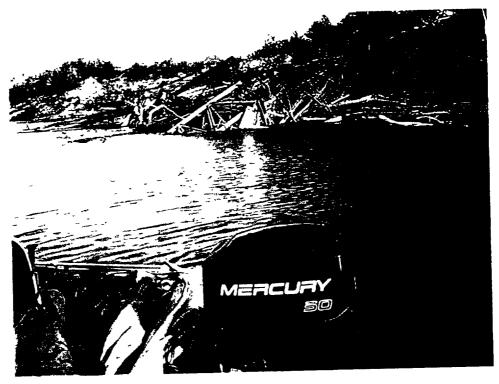


Figure A-25. R6BU, showing metal pilings on the bank



**Figure A-26**. R6AD - The bank was littered with driftwood as shown here. Benthic samples were collected at this location.



Figure A-27. R6AU Site – facing upstream.



**Figure A-28.** The large pond located at the end of Site Q was nearly dry as shown in this picture. The trailer was used as a platform for water and sediment sampling.

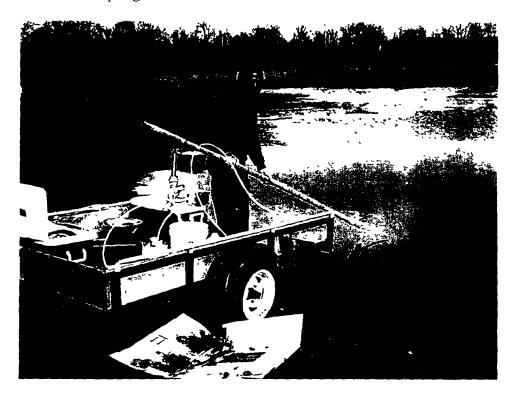


Figure A-29. Surface water sampling at the pond



**Figure A-30.** Chinese Bighead Carp being removed from pond. Bluegills collection with hoop net and electroshocking

## Appendix III

Copy of Field Log Book

ALL-WEATHER WRITING PAPER

CONTENTS

her 1

# ALL-WEATHER P "BELF" REN TAL FIELD BOOK

MAHALINGIAM RAVICHANDRAN AMEC Earth and Environmental 1395 S. Marielta Parkway Bldg. 300, Suite 210, Marielta, GIA 30067 1770-420 2100 X327

Sauget Area 2 5 ik Aquatic Sampling Program - Mississippi River and Pond Sampling Siles November 06-18, 2002, Sauget, IL

his book is printed on Rite in the Rain' All-Weather Writing Paper - A is a paper could be used when and enhance the written image. It is widely in the ingrement world to recording initial field data in all kinds of weather possers and lossers to the increase weather pen.

Reference Page Index

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Sauget, IL Date 11/05/2002 Sauget Aquatic Sampling

# In troduction

This log-book contains information on the field sampling activities at Sauget Area 2 Sites Sampling location in Mississippi River and a Pond Located on the Southern end of Site &

Information of Sampling date and time, 51/2 locations, Site locations, field gampling personnel, equipment Calibration and other related Conditions are recorded in this log.

Due to the laws volume of wester yearly and parameters and environm-Samples collected for Laboratory ental analysis, those information were vecivated on separate field sheets that will be submitted with the field sampling report. Project Client \_\_\_\_\_

Each day of Sampling, all field personnel were given a health and safety orientation. While on beator near water they were required to wear I loating devices (life vest),
Sufety glasses and other trusonal protective equipment Sperited in the Smally assurance project plans.

These who specified or morrical near Van vern Sediment, sampler were required to wood hard hats and AMEC personnel who handled Seden samples were required to wear disposable yloves.

AMEC field team lender M Rr. vichandry was also the Site Health and Safaty Officer (SIISO), responsible for health and Safety Orientation and ensure that proper. Realth and Safety procedures were Followed.

5A2SG- Aquatic Sampling Day 1

# Field Sampling Personnel:

OMahalingam Ravichandran AMEC W.J. Pavid Dean (1) Jamie Haulbrook 11 D'Angie Haffie Helms & Assic.

@ John Ahrling @ Don Helms

,, O Susan Hankeimeier

& John Barke

EPA Contractor

١,

The following visitors visited the sik on a different beat during a part of the day:

@ Kenny Lynn (6) Sandra Braun 1) Frank Putz

AMEREN

IL-EPA

AMEREN

Health & Safety orientation Conducted of 7:45 Am on shore and reached the sile it 8;00 Am.

Phoposition Plot Area 6 (Downstream Sampling Area in Ms River)

Mot Area 6 on Mississippi River.

This area is the most downs tream in this sampling and was sampled first. This were is located south of Site Q. The middle point of the transect was marked on Shore using Garmin GPS unit at latitude N 38.36.3.3" and logitude . 90.11.16".

The first sampling location was muled 50 ft from shore and the fouthernmost Sampling location on this transect was named ROAD (Site locations and Sample ID were assigned using the Convention that will be described in the field sampling steport).

The site coordinates were recorded on field thats (38.35 '0.4" and 510.12'.21 The shorelines were moderately steep with driftward found just wortherm four routroad and barge loading back r retirent R6AD STE

(- Contd-) 8:25 Am - The Hore be unit (U22) Calibrated prior to use, using the Auti Cal Stitution provided by the Vendor (Lot # 3028. PH=410; NTU = 0.0, Conductivity = 4.49 m5/cm; expiration date 2.19.09).

The weather was Chilly, light breeze, cloudy, Fast- moving ements observed in water Column. The READ site was located about 160 ft South of the R6 AM (mid sampling) location.

The Hoseba U. 22 probe and durface water Sampling tubes were attached to the Frame of the Van Veen Sumpler and lowered to the bottom such that when the Van Vien sampler is at the bothern, water samples and water quality parameter were collected at about 1-ft above the Sediment. water interface.

"The total depth at this location

Project / Client

- Contd -

were recorded in field should. After this, water samples were peristathe pumped through the peristathe pumpe in purge mule at a flow rate of about 2 L/min and for 5 minutes . This purge water was separately Collected in a bricket and disposed after the completion of sampling.

Decontaminated Silicone and Price coated FEP. I Fred polyethylen tubing were used for sampling. All water Samples were Collected in pre-labeled containers . herter Samples werenot fittered in Field for dissolved metals analysis Rather, an un preserved scemple was collected and sent to the Luboratory For Filtration in the lab -

Due to Very strong currents, the beats had drifted few tens - Contd -

water samples. The toals were Treatigned to previously marked location for Sediment- Sampling. All Sed, ment and water simples were Collected at-the location. The first Sediment grab was used for VOCs followed by other Chemical analysis Samples. The second sie was used for bioassay sediments. Hexagenia was observed in

sediments at this location. Hence a third grabe was taken and about Sieved on 05 mm screen provided by Pennington Associates and the neterrate was preserved in isotropy lalcohol for benthic inventebrate analysis.

The Lasiments of this location was Si)ty clay with very small sund Content. It had a dark oaky brown Color and a slight organic odor. After completing this site, the

ROBD: 10:00 Am
Then we moved to the 150 location on the downstream end and marked the ROBD Sile.

After marking the clisture with the range finder, and tuking the GiPs position (38°, 35, 0.4"; 92.12. 24.0"

the boat was anchored. The boat anchor Stuck to some unknown objects in the bottom and Could not be netrieved. The SONAR unit indicated uneven

bottom. Due to the possibility of losing the Van Vely sampler, 11 was decided not to collect the Sediment or water samples at the location. Spont over 4.5 minules to retrieve me anchor.

We moved to the RGAU location (upstream site in R6 phrace

Arrived at this at 11:55 Am. This site is located 180 from mid point marked on bank and 50 Ht into the Stream channel. x Rbcm

DENn Stream

Site conditions were partly cloudy light breeze und Coot; Fast moving Currents

After taking the Gifs position (38.35.2" and 90 12' 18.3"), the Hore. ba unit and decontaminated tubing we're 9 Hached as before. Water stay quality parameters were recorded on Field Sheets water samples were collected as described in RhADsile sentiment samples were also collected

Location RbBU Date

Project / Client

14:20

Moved to this location on midtransect. Traversed the area and montoved the water depth and observed that at 150ff distance From shore, the water depite dropped Suddenly to over 40 depth. Due to concerns that the peristalti pumps may not be we moved to lieft from shere, Where the water depth was 31ft.

Sediment and water samples Collected at this site The GPS readings were 38, 35. 2-1" and 90 12:18.2" It was partly cloudy with light breated at this sile. After collecting water arwelly & water Samples, two sediment grabs were collected - First one for chemical analysis I second one for bicaccumulation terry. Sampling Concluded at 3:45 Pm

Date ..

- Contd.

The Seiment Sampling gent were de contemporated after sale peut water tuling war for de cont.

brupes were immediately transported to the URS probable were some seaton leation where where sorted, entered on the in-f-tustedy forms, ported with its and the blanks to respect to the processingly and shupord to respect to respect to the produced by peet to be proceedings by peet to overlight.

The water Sampling were decontain. and better and supplies for tomorrows sampling preperued in bexes.

Location MS River Sauget Law 11/1/2002 SALSGA-Aquate Day 2

Continuetion of RG Plat Aca

Freld Personnel

M. RAVICHANDRAN
David Dean
Jourid Dean
Jourid Haylie
Ange Haylie
John Helms
Susan Hankeimeier
John Burke

Health & Safety meeting was conducted by Ravi at 8:22 Am. Den & Raw's Went to Plot Arend 483
to Starkout planned dempling forthern
on Shore, while John Afriling and
Denied went to boukern stan (plot Aren
5) to Stave out the Recation.
Plos Area & central point mass.
Staked on Shore, while flagging

| X

1

8:45 Am Returned to the (Rt AM STA) Rb plot

The GIPS position worstaken (38 35 1.1")
and (96.12.19.8") and pictures of the
Site was taken Site were taken on a digital Comera. The weather was Sunny with light breeze and 46°F. The water conditions were colon with relatively slow currents.

The total wester depth was 18 ft measured on the Horeba unit. The Horeba unit was calibrated prior to Luse hday.

After collecting water quality info neter samples were cellected Following purging janders. A field duplicate was collected at this site of adultion to field samples. Sed: ment samples were found to be Silty elay, alark brown and contained fine cool particles. as unwant were de contaminate

Location K65NL Date 117

\_ 1C : 45 AM --- his mid-depth - mid transect location was renchedat 10.75 Am. This central sampling station was Chosen around the burges that were parked in this wese. The water conditions were relatively Smooth and blew moving Currents. The GIPS coordinates were merked as 38:35'.1.6"; 90 12'. 2c.8

Water questy readings were taken at bottom depth (It above Sediment layor). Then water Sumples were collected. Droxin Samples were collected at the site. After water sampling, water quality parameters Note meanied at mid-depte and Surface water (0-14) Three dredges were made to Collect adequate quantities of Sediments for all analysis.

Samp)ing concluded at a round

12:25, Gediment Sampling gen

After a brief lunch break on brank, returned to R bCM site at 300 ft shore. The water was calm at the Surface but with strong currents at the bettom. This site was located very blose to burges.

The GiPs locations were marked at 38-35. 2.6" . 90 12. 223". The water depth was 32' From Surface.

liesterquality, Surface water and Sidiment samples were Collected as planned. The Sediments were observed in be medium to course grain Sand with small grave. The organic matter Combert in Sediments appeared to be low No bentac organisms found.

This concludes Sampling of REplot area.

After decontaminating Sediment Sampling equipment moved to Location R5 Plot Area Date 11/7 102

Project Client R5 A D 37 to

The RS plotanea was about 1000 ft upstream of the Rt plot Area 51 tes (REAU & RIGBU).

At this plot Area, there is a small brach area and steep niky
Shores on both sides of this beach

The downstream locations were contrained by the presence of barges and loading dock

The RSAD (SO fdowns tresum site.)
was located slightly NE of these
burges (38.35.6,1"; 90 12'.11.2")

Fellowing RSAD site location morking, the water depthwas measured (6) and water quality parameters taken. Following the, water samples were collected.

The tubings weste stemoviced and

Priet Chent

- Contal - .

rocks and Sediment grabs could not be collected after several QHumpts.

we moved the best all the way upto 150' into the channel (to where the next, R5BD Site Juis 11 be lecated) buying to collect setiments all the way through boats along the 50' transect 2 went about 2007 the downstream and upstream of the paper location where water water alongles were cellected.

160 RSAD RSAM X RSAM
Sujt 20091 Rsanh

This There were appear to be covered his works for large operations - No

Project Client SA2SG\_Aquetic Sampling

R5 Plat Area Sites (Conta)

#### 7:15 AM

Health a Safety orientation.

Don Helms Said that due to windy conditions in forecast, rough water can be expected - also waves coused by borge movement should be watched.

### Personnel

M.RAVICHANDRAN

Jamie Haulbrock

Susan Hankeimeier

Don Helms

John Ahrling

John Burke-

Bouts left shore ut 7:30 Am.
Reached the R5 Site were at 17:45 Am and positioned at the R5BD Site around 8:00 Am.

Location KJ KJ Date 118102

Location RTAM Date 1118 2.

UASAX MASA X RSAU X RSAU X RSAU on E. W. Linection. Baryer A. There were no, baryon present district 1382 1'021 or usenson with to At this middle scamping point Lecaled this sile, <1- 9 cs Am

Centudent Sarupling out the site cer Collected 3 Sestiment grades i to the home good shall start stall seem mond 21 "FIT. " FIT. " 25.88 1 to hooned werd now hisol RSAM Sampling Site. The Gits Moved a few feer many, marked the . - alter that without houseld -Shi ment grad. Sked mands cented wesse tellestable by attempting an The make Sure that Sestinant Never RSAM Sile from Let truch

> Surveyed intended for Suitable 2 trong Currents. The Substraction words . Calu behind the burges, moderately. 8:13 fm Sung clear, low los, slight-breeze. The weeks with

We went buck to this assom for

were for sed ment sampling.

225 H from shore (As where Brigge dringles in this sile in well as with attempts were much to collect belinion stated it 8"32Am. After 1823, Soveral ( water day the 14"). The water pringing water quarty measurement was taken ("P. 11. 61. 6P, 'P 3 ' 22 : 82) Whenhow Callbroked Hore ber unter book 6175 We presidented the Aus side, anchorage

1.0 CADO 1 1 10 10 10 thus bed ment sonytes cut

incred to the next trimes to. was tecerted). At 9:05 they we

Location R5AU Date 11/8

12 05 Am Positioned of this site. The wind relecting was measured at 13 mph. The bulton was very shallow ( d- 3 ft) Fince It is hard to use the Van Veen Sampler at this skallow depth, moved to 65' from shore where the hater was 5 deep - took Warens Used de contain tuling to collect water samples. Seliment samples were collected after homogenization The Sediment was fine dilt 25th clay In top 1" and fine to mediam Sand below that. No benth c organisms visible and no damples collected for bonthic invertebrates analysis.

Next we moved to RSBUSIE

(152 ft from shore) The wind speed
reached 23 mph, forecast for
reminder of the will 30 mph.

Health to Safety plan calls for work to

Location MS River, St. Louis Date 11/9/2012

Project Client Cont. of R5 sites Day 4

Health & Safety Brief -

Same concerns as yesterday with Strong winds in fore court for today.

Persinnel.

M. RAVICKANDERAN James Haulbrock Susan Hankemerere Don Helms John Ahrling John Burke

test beat trampat 7:50 fm and reached R5 area at 8:50 fm. Sampling equipment were already decontaminated yestering.

The weather was cloudy, Inderate love to and cold En mid-upper 50's. Went to R5 CM Site first.

8.05 Am This Site was located 300 Ht from Shore using stange finder writer quality meter was calibrated. GPS position taken at the site - 38°35'. 9.7"; 9c. 12',4.3".

The Surprise water had light movement from wind and swift Currents. The water depth was 28.71. Water quality measuremen. Yecorded.

water samples were collected Une Sed ment grab was adequate for all analysis. No benthic organism found and no lenthe S'amples Collected. The Sedments were med to Cearse Sand, and Some Coul particles visible; very little org. c in Selments, med to dark brown Sund.

dorints minated sediment a Sangling

Location K5BM	Date 11/9
0	

9:15 Am At this central from shore) positioned at 9.15 Am. The weather was cloudy, windy and cost. Surface water appeared relatively calm. GPS measurements luine 38.8.4", 90°.12.8.5" After Water quality measuments

(depth = 18), water samples Weretaken. One set of samples were Collected for draxin analysis.

Sed, ments were fine homes, um Sand with some silt, med bring color and some biological oder. No benthe crajanisms & benthe Samples not Collected.

Location	Ka'Bu	Date 1119
_		

Project / Client

11:10 AM. Positioned at this Sile

the weather was still cloudy, windy and cold.

After taking pictures of site and GPs mensurements (38°35'. 10 7") (98. 12'. 155") Water quality parameter faken on field short.

Ringe blanks fret collected by pumping DI water through pumping system and allecting to in containers. Sedi. Tinks blanks Collected by Musing the Sampling equipment (bonks, Scotps, Van Veen samplet) and Collecting in a bord and transferring to containers Via a funnel.

Water samples were collected next-US: of the same tubing and followed by Sediment grabe. The top, i" of Sediments were fine, 8ilt with clay and telow that were fine to medium Sand -

Location	Date
Project / Client	

- Contd-

were picking up speed and boind quots up to 30 mph were measured. Due to this the Samplings. Was stopped Soon.

Returned to Share at around 12:45pm and well taken to the Shed Immediately for packing and Shipping by feder that Closes ewilies today.

Sediment sampling equipment decontaminated before clearing the Site. Water sampling tube taken to shed for decontamination.
This concludes all sampling in Plot Area A.S.

Project Client SA 25G Aquatic Sampling
Plot Aven 4 Sites

11-10-2002 Sunday

Held Personel -

Mi Ravichandran
Jamie Haulbrook
Don Helms
John Ahrling
Susan Hankemieier

Today EPA Contractor, John Burke would

Health & safety meeting at 7.35 Am
No Special health or safety Corcorns.

Left the boat ramp, at 7:45 Am, Venched the R4 plot area at 7:55 Am. This plot was is lecated around the boat ramp in the middle pout of Site Q. on the chamber and surface bent ramp, there is a surface bange

Project / Client				-	- <del></del> -
Steap & bank is edding a	ank. Curi	This yed as	part of the	of the	an an section
The mid upstream are to boat r	m po	slighter upst	eum	of the	alex_
Bank.	Peral	mp			dennstr
Barge VIII	<i>.</i> .	Sunke beug DR	e L4 AD		
			rybd		

In the cases with eddy curents,

R4 AD 8:36 Am

Location <u>R4AD</u>, <u>K4(31)</u> Date <u>11/(6) 2002</u>

neval pilings) as indicated on the SCHAR WHIT.

Hence the R4AD Ess site was chosen on the riverside of the Sunker barge where the bottom appeared uniform. The Site was marked 50 from bank.

The GIPS location was marked at 38° 35'. 10.8", 90.12.5.6". The weather at this time was partly Cloudy, and a thick fig on water Surface. He water Surface was relatively calm and fast moving currents The water depth was 16 ft. The Hereba unit was calibrated with a fresh solution of Calibration.

The Horse ba lent and water Sampling were attached to the Vien Vien samples as before, and lowered to the bottom. weater quality parameters in a handed on field sheets.

The Sadiments at this site were fine to med grain sound with sime gravel and broken pieces of Shells in the top 1". Ben the organisms not visible in dediments it benthe Samples were nor collected. The Sampling was concluded at 9:25 Am.

38,35-,23.2"; 90.11.48.0 RABD: We positioned as this Site at 9:30 Am. This sampling Lecations was marked at 150 from shore there was a light rain out this ite and light breeze. The neather was relatively lalin, with fact moving curents. Water quality parameters were recorded at 9:45 Am, water depth

war 12th - water samples were collected as planned. Sodiment Collection efforts were unsuccessful even after several tries, and due to the presence of Stikes and

37 Location R4 HW1 Date \_\_\_\_\_ Projec Chen'

Caused the Van Veen Samples to not Close completely, long the sediments. we moved x 15-f1- into the channel () 65 ft. f-From shore), At this becation, collected newled sediment samples in 2 graces. The ded ment was medyum to coarse sand, homogeneous and viry little organic matter.

(GPS on fred shaet-) R4AM: Moved to this 50 6 cation at 11:00 Am. This site was located Stighting upstream of the best rump. as descursed exclient. The REAmloc was positioned just offer the barge parked need the ramp. water quality and Sed; ment samples were Collected as planned. Zebra mussels were found attached to longe pieces efrocks (not in Sed ments) cellected From the Sompling was abbrevialed today and returned to . Shore 12:30 to give break for Sampling Crew & because of sain

Location Dauget Sile - MS River Date 11/11/2002 Project / Chent SA2SG Aquatic Monday Sampling-Plat Aree 4 Day - 6

Field Sampling Out:

M RAVICHANDRAN Jamie Haulbrook Steven Aldis (AMEC-Joined treteum John Burke mon teday omends) John Aryling Don Helms Susan Hankemeler

Health & Safety Meeting 7:35 Am No health esufety conceins. Don Suggested Votating field Sampling oven, of possible, to relieve stress.

The morning was cold (law 40's) light break, clear sky sunny. Left bout ramp to #:45 Am and reached the Sampling area at around 8:00 Am.

Calibrated the Horeba unit 4 positioned at RABMS le

RABM: 38.35 23.7"; 70.11.43 5" 8:05 Am Positioned 150 hom shore from the Shore location that was Hagged earlier. The weather at the Sile was innry but celd (levais) With light breeze The water Swiface was relatively celm with fast moving Currents . The water depth was 11ft. Calibrated Horston unit was used to take water gridlety measurements. In addition to other chemical provameters, water and Sediment Lamples were taken For Diexins as well at the Ireation. Sediments were medium to conse Send, transgeneris, and no living organisms were found in Seliments and Heinfore no benthic Samplei Were Collected.

Sid meny Sampling gear were herontaminated us before and moved to the next sampling location at 9:20 Am.

38.351.24.4" -92.11.44.0. "K4cm: 9:30 Am. The weather + water conditions Fimilar to R4BM. The water dep th, was 14 of this Site water quality measurements recorded first. At this Sile both a set of samples and a set of field duplicates war collected for seal, ments and water. Two Sedimont-grass which Collected The top layer was loarse grain with Small rocks, and the second layer was medium to coarse sand, top Sediments were brownist, while becoming more gray towards bo Hom. Observed: Febra mussel Shell tragments but no live organisms. , No benthe Sumples callected. samples were inventored, æg uy ment deumtaminated. Sampling concluded of this St at 125 2 took a brief tunch threak on bank.

R4AU 13:00 This sampling Site is located so from Shore. The GIPS positions were "
recorded at 38 351.25.5", 90.11 41.2 At this upstream sites, waterquality parameters and water samples There collected as planned, and without difficulty. For sediments, 12-16 altempts were with the Van Veen Sampler. Ricks and Sticks prevented Sample Collection Moved to 60 from from she is and collected sed, ments here. The Sediments were strutified as at other locations in R4 acres -The top 1/2 was brown, and below that dark gray, medium to course tand with Sill-, and few gravels The Sampling Concluded at avorend 13°co.

Then moved to the upstreum, 150 Lecation, RABU. Wester omel Sodiment Samples were Collected set this lecention without any problem

Location Dauget Sites - MS REveneure 11/2/2002 Project Client SAZSG Aquetic Scanpling
Plat Area 3 silis Day 7

### Feld Persunel:

1. M-RAVICHANDRAN 2. Steven Aldis 3. Don Helms 4. John Burke >- John Ahrling 6. Susan Hunkemeier

Arrived at The beat Transport 7: coulin Safety meeting heldat 7:30'Am -nospecial Lealth & Safety Concerns -

Left to R3 plot arealication out around 1:45 Am. This plot wear was located slightly westream of the grain loading area on the downstream edge of Site R.

Decontaminated taking and Sediment lampling gear were Used. First sampling Sile was R3AD.

Location K3 BD Date 11/12

Project / Client

8: 20 Am The R3AD location was marked St from Shore. The GIPS . Coordinates were taken at 38-35.26.5", 90.11.42.0". The Horeba was calibrated and the Sed. sampling equipment decontaminated Photos taken of the Sampling site. The water surface was smooth, but muddy, water depth 9', overcast Sky with light wind. water sample

collected first . Set ment samples were difficult to collect due to the presence of large Stones. Mours 5-10 108idette chammel and Fred 8-10 grabs. The Sedment gratiment Smaller Site. Three grabs were used for samples (after homogeniting) The Voc Samples were collected

afterna. After decontaminating the significant equipment Tunks blanks were collected. Water Tringe blanks Allocted by pumping

decontaminated tubing. Sed, ment rinse blanks by pouring water Vous veen samples. Dorin vise blank yere als: Collected.

R3BD 10:45 Am.

At this location, the wenter be as Still Cold, clear and light wind and the water was someth & muidy. The water depthwas 15. masked at 38 35.26.5" 690.11,426" While we were collecting seliment Samples at this location, a tugberal moved barges within for for of the Sampling location. But the water lamples ded not indicate elevated levels of Suspended Stud, load from the operation.

Sadiment Samples were Cilcuted from one grab Sampling Completed at 11 45 Am. Equipment

K3 Am: 11:45 This 50 le cation on mid point of the transect was Gits dat 38°35'. 44.9"; 90,11.25.3" The sampling depth was 14". Sediment and water sampling had no problem Jediments were lighter color on Burface & and darker with depth. Sectiments were fine sandy sist with some clay, dark gray, smell of decomposition and hydrocorbons. After sample Collection was completed, And eguys m were deconted. Moved to

K3BM at 13:40. Therewasa a tight wind and the water was Chopping, GIPS jositions were 350 351.44.8", 90.11.26.8" Dioxin Samples were, - Collected at The sité. Waltertefoheras 13. The Sediments were fine sand with bilt, and mediumcourse sand at the bettom of the druge sample. No benthe organisms.

Location MS-RIVED Date 11/13/2021 Project/Client <u>SA2</u>SG Aquatic Sampling - R3 Plot Arca world-

Field Personnel: M. RAVICHANDRANT Steven Aldis Dun Helms Susan Hankerne el John Buske John Akrling

Selety meeting at 7:40.4m, loft boat namp at 7:150 Am and raiched R3 sile area at 8:05 Am

R3cm: This 300 Sampling location was positioned at \$105 Am. A barge was parked about 20 From This site toward the channel. Gi75:- 38"351.45.8", 90", 28.8" waterdapph (13') and water quelity parameters taken - water bamples and sediment samples contained additional setstor MS/MSD.

roject / Client \_\_\_\_\_

This site is a dike that extends from shore to about 200 into the river. The dike Causes eddy Circulation in this area but does not appear to impact the Sampling Site. The water lepton was 17 in a decaped to impact the Sampling Site. The water lepton was 17 in a decaped as planned Sediment Samples collected as planned with some fine Sand. Smell of organic

with some fine Sound, Smell of organic decompts. From pockets of tracks in Sediments that appear to be pockets of burrowing organisms. Sampling completed at 10.45 Am.

R3BU: This ISD ducation on the upstream and of transact was reached at 10:50 Am. The weather was both sensy and clear in but 50's with a light wind. The water depth was

Location R3 BU (Confd) Date [1] [3/2cc2]
Project / Chent

The Sediment appeared Stratified, with top 1" Bilty clay and victom. coarse 5 and Suggesting that the depositional environment has abanged recently. Swiments were homogen 7ed for collection.

Sampling was somelected cetaround 12:15. Scalement Sampling equipment were decontaminated. This concludes our Sampling in R3 plot were.

"After lunch obreak, moved to R2 plut Area at 1:158 m.

RZPlot-Area 1:15-Pm

This plot area was located Slightly northeast (upstream) of the old power plant. The downstream siles in this plot area were about is 55 fliupstream of the powerplant install billings and Ft upstream of the

Downstream of the dike wire, the Substrate was indicated to be uneven with logs, and metal object on the SONAR instrument. Hence the downstream total were chosen based on this observation.

R2AD This site was located 50 from shore. The water depth was 12. GPS repaines were: 38° 36. 19.5"; 90 11.4.9° Water qually measurements faken and Sediments were Collected in 4 grales Sediments were sticky clay and Juliagrales could not be collected-Sediment wits gray and some trigs Mere obsumed.

Sediment georewere decontaminated and moved to next lampling Sile Ra BD at 2.30 Pm

Moved to this hearten at al. 30 p.m. Don Helms Wanted to not do Sumpling tuday at the sile. The Field Lear leader Suggested that Since the weather Conditions were Lavorable e plenty of time before Sunset, that we stay back -Collect Samples hora, After Some to stay back for complete Sampling at the site. Started sampling at 22,50PM waterquality & water samples taken. GPS constrates were 38°, 36°, 19.7°, 90.11°, 5.6°, 80me 8-w attempts were made to Collect Sediment Samples Sampling was completed at 3. 55pm and reached shore at 3:58 pm. Decontaminated Sediment samplie fear.

Project / Client SA 25G Aquatic Sampling Thursday

## Field Personnel

M. RAVICHANDRIN Susan C Hankemeier Don Helms John Burke Steven Allis John AH Ahrling

Brief Health or Safety Concerns today

7'30? Located the boat with soungling equipment and reached R2Plot Avea at about 8.00 to

RZAIVI: 8:10 Am The weather was retal, light wind and cloudy. Then, water was stightly chappy.
Before sampling began the Hereba unit was collaborated. The 5.16 location 

Location R2 Am - control Date 11-14

Project / Crient \_\_\_\_\_

The GPS coordinates were 38 36 20.7 and 40.11. 5.1".

histor quelly porameters were seconded es bifore at bottom dipth. The water depth was 15 ft from Surface. After this Soujace water simples were collected. A field duplicate set of Samples were also collected on the

The sediments were Selly with fine sound, there was slight decomposition oder lant no bentine organismy found or benthe samples Collected. Completed Sampling ort this site or 9:30 Am. Samples were inventored! The Van Veen . Samples was deconterminated.

9:35 Am - R2BM, Moved to this Sile 100 from bank on the Westream Side of this location were Several barges The

Location R2Bm - could Date 11-14.02

Project Client

and samples were collected on the Nownstream Side of the boat while sampling at this licetion, the loading operations at the nearby Coal powerplant produced coal dust clouds that Heached our sampling Site. Care was taken to avoid coal dust from entering environmental Sumples. 2 Greates were sugued to obtain adoquate Sediment votume. Dioxin Samples were Collected at This location for water and Sedim-The Sedments were medium Sand and well sorted. Vous Vois decond after sampling was completed.

RUCM 57 6: 10:50 Am

6175 to realings of this 300 ft. 57 to was 35.36.227", 90 11.5.9 Anchored boat to a barge on the upotream side of the niver. The tinton do bith was 1944 From Lorface Location R2CM - conta Date 11-14.02

water quality percemeters recorded on field sheets, followed by water quality samples , sodiment grales collected without any poollem. Sediment with millium to coasse sand with very low organic Carbon Content. Completed 150 mysling at this location at 11:45 Am. Lunch break From 11:45-12:25

12:30 R2AU Loxation

Burween the impds treum locations (RQ Am, RZ BM) and upstream locations (R2AU) there were Several barges present. Hence the RIAU site was located about 450' From mudstream lication. The pastifier of larger are Shown in the following sketch.

tocation Rahulanta Date 11.14-0 L

thet net

\* RICM

doms herm

Completed dampling est this site of 1:40 pm. GPS downlindted marked or Field Streets at 38:36 ab.3" and 90.11". 0.4".

To accomplate Den Helms regionst for Shorles workedays left this clary at 1:45 pm, vanveen sample was decontaminated. Samples inventorial

Project, Client 2- and Port Area Date 11-15-02
Project, Client 25 G. Aguaric Scumpling.

Arrived at bout namp or \$7:05.73.
Health & Safety meeting at 7 35 Am.
The weather was cold (lowgos)
fully cloudy light breeze. Coldshear
and selated 18ther was also assed.

Feld Personnel ..

M. RAVICHANDRAN Steven Aldis John Burke Den Helms Susan Itanlemeier John Ahrling 7 50 Am Moved to Ra Bis, the last cases sampeling beaters in the plant six thought on The Horseland will while being Calibrated gave an error mings.

Measuremente taken in thout problem.
Balteries were Subsequently replaced.

Water sumples taken. Gots position marked on Field Hects (38 36.26.0) To. 11. 04) water elept 1931. one of the Sediment grabs had Youks and other debors. Necessary Sent ment scraples were collected in 3 grubs. All scample, collected 2 Concluded at this site at 9:10 Am.

# R1-Plot tren sites

The K1 plot aven is the most upstream phi-aren in this sampling study and was located between the Railway line bridge and Intenstale Heylmany boidge. The upstream sik In this plat area was marked on If, invite bank on the day recon.

Location N1 Y 10+ Hea Date 11-1)

Today, there were few bronger. between sampling locations.

Rly Bridge Raison Interestable

KIBD KIND KINN FILAN

KIND KINN FILAN RIAD 17:45

The downs trem sampling site was mouked at 215th dis of faige. The GPS weather was marked 38.36 54.1", 95.17 90.16.51.7". Hose ba wir nearlibrated after inserting ment barticues.

water quality paramaters recorded; water samples collected Sedimente were Striky clay; Substrate had discorded stell anchor lines that had some live Zebra mussels altacked to them. No

Location RIPlot (Control) Date \_\_\_\_\_

A set of viruse blanks were Collected

prior to actual sumple collection

at the RIAD Site Eguyment Decend Simpling concluded at 11: 50 Am

and moved to shore at 12:00 for

lunch break a

RIBD 150 from River bank Moved to this site at 12:45. GPS: 38° 36' 53 5" , 90.10,52.1" The water depth was 29 ft. water quality pairameters feekin and brater samples Collected.

Sediments had live Corbicula (Asiatic clam). About 10- Lof Sediments were shared on to I mi screen provided by Tenning ton and organisms preserved in 150 propy alcohol. All other Sent ment-Samples Collected as planned.

RIANI. 2:40Pm This Site is very shallow (2-3 H).

witer quality measurements (if evere Sediments) due to Shallow Conditions here.

Water and Sodiment Samples Completed at , around 3:25pm De contaminates sempling equy and returned to shore at 3:35 Pm.

Proje i count SA2SG Aquatic Scrterday

Sampling

7:00 Am Arowedat Boat Ramp

## Sampling Personnel.

M. RAVICHANDRAN

Steven Aldis
John Ahrling
Claire Morris (FPA Contractor W)

Don Holms

J. Burke)

Scott & Holms (Associa).

iJohn Bunks was not present and instead class Merris From (112 M Hill) accompanied cos. South Heims of placed Susan Flownkernewers as Don's assistant & for future fish daughting at Pond.

Health & Sujety orientation has Conducted in its rentrate for every one due to the Porsonnel Change. Health & sofety meeting Concluded at 7:15 Hm.

Location K1BM	Date 11-16-02
Project / Client	

7:45 Am - Positioned at 150 from Store GPS positions were: 38°.36'.5x.x" 1; 120.10'52.1 Calibrated the Horeba unit, decontaminated sampling equip.

Later Samples Collected for "Samples" and Feld dups (and a feld dups (and a feld dups (and a feld dup & acteal Samples also included diskin Scamples Since this is a mid-Sampling point Due of the 1. L. Dioxin bottles slipped and broke that was singlely cleared up.

At this location, Seed ments grabs could not be collected after.

15 attempts or so Moved so downstream a tree again. large rocks, rope, a cenches line, in wantered. Moved that to original Sampling location and moved to Dec' from about shore.

Sediments were very Coarse Sand

58 Location RICM Date 11-16-02

Collected. Sumpling was concluded

After a break at the shore, a rinse blank was collected on deconterminated en upment. The rinse to lanks were collected news bounk to avoid Strong ticks from winds I barge is marked RICM)

## 12°05 RICM site

GPS 38 36.585". 20 10 52.0". 3.2ft from Store - midpoint westerquality and surface water Samples taken. Sedment grabs were Obtained after few tres (Strong Currents). Currents).
Completed Sampling at this
Site at 1/15pm.

Location Ricm Date 11-16-62

RIAU 1 25 pm The SONAR unit

indicated that the Substrate is voing Cuthis Site 50' from shore on upstream and. Moved the bout gradually toured the channel while monitory the Substrali at the same time. The closes) location was 108 hom shore ishere substrate of peaced Conducive for Sextment sampling. GPS 38.37 1.2", 90.10 49.7"

Collected drugace water Sediment samples at this location. Vinivech Deconterminated and , completed ab- 2: 45 Pm.

# Arrivedal 7.10 Am

# Personnel:

M. RAVICHANDRAN
John Ahrling
Steven Aldis
Don Itelms
Scett Helms
Clair Morris

# 7:25 Am Health & safety Meeting

Morning was very cold in upper dis, calm. Suring, tog on water. Cald stress discussed.

7 SSAM RIBU positioned boat cet this last sampling location in the plot area at 150 from miver boands. Calibrated Horrbanum to Girs: 38.37.07". 93 16.50.7"

unit -Girs: 38.37.07". 93 16.50.7"

Location RIBU (	(onto) 0	ate	11 17-02 Swyday
Project / Client			

Sampling equipment were decontaminated. We then imoved to R5 plot aring Where EPA/ILEPA & SAZSON thad they wested I two and tional Sets of samples. we moved 300 morth of the upstream Locations (RSAUARSTRU) on the Rs plot area. First Flagge 300 from previous site on . Tiverbank and then marked Yange finder and floatables devices.
The 50' /s when in the upstraum and of K5 plotarea was named RSAN and the 152 xilk location was named RSBN . Location.

R5AN. 9:45 Am, GPS 38 35/11.11, 90 12 2.1" Pop t Chint

After water quality measurements
were recorded, water and Sedimen
Sumplies were collected. The dediments
were fine Silty clay wish fine send
below 1" depth. After voc sampling
Sediment was homogen Zed prior
to sampling. Van Veen de contamin
ated and moved to next site

# 11:00 Am R5 BN : 150 from Shore.

GPS: 38.35 11.8"; 90.12.2.5".

Took water quality parameters,
Collected Townine water and
Sistiment samples the Sediment
was Sittyclay. No benthics Collected
es benthe organisms observed.

All Samples were inventorica.

Vanven Sampler deconfaminated.

This concludes our
dempling in the Mississipp. River

Reached Shore at 12:10.

Tomorrow's - Pond Sampling

Project/Client S'A256 Aquatic Sampling

Pond Sampling

Met at The Pond | at 7:30 Am.

Persennel:

M.RAVICHANDRAN

Scott. Helms

Den Itelms

Clair Morris

John Burke

John Ahrling

Steven Aldis

# Health + Safety Meeting

Two special health and fafety Concress were discussed: I

O. Electrocidum, Shock - Two the planne relectroshecking of fight. Only Don and South Hilms were authorized to Stand in water (and John Ahrling if necessary) others were instructed to say on

(2) The med was very sticky during I can survey and to prevent Slips A Sinks, it was decided to sprend candbeard boxes on welfairt of much not covered with water trailer. The trailer was set up new the edge of the water to be used as a sumpling platferm.

All Sediment and water Sampling Souther, equipment & supplies were kept on the trailer.

The GiPS position was marked as 30°35'. 12.0" and 90.12'. 2.5" The weather was in low 40's, light wind, partly closely and the water was calm but mulchy (due to Stallow depths.).

Water Sampling equipment: The water depth was very shallow

of water was only on estimated 50/1 × 10054 Due to shallow depth we wied a bamboo pule for which the pre-cleaned Sampling tube was attached the bumper pote tip was covered with Filthock bay & Tip tied. The sampling tube stake out 16" from the pole and only the taking was " Wlowed to come into with water. The typof the pote & Ziplock bag was sprayed with iso propy Glothof and DIwater as Clever. 5 hep.

Sediment. Sampling equipment.

The Surface Sedements were collected by with a large gurden Showel. The metal Oper as well as the fandle part meterin were covered with

66 Location Fond Date 11-18-02

trandle portion were decontaminate with 150 propyl and Distilled water.

Rinse blanks for water mutice was collected by pumping DI water through the tubes. Rinse blanks for Sediment matrix was collected by powing Distilled over the Sherel, Spions, bow), gloves and other Sampling gear and Collecting the virilates for analysis of various parameters.

Water quelity parameters were rellected using a Calibrated Horiba unit. Show the wester depth terns only few inches deep, the probe could not be directly placed in nator. Instead tubing used for swiface water Sampling were consticted to the pully and the In licone taling Hom pump head was connected to the whilet End

Location Tond	Date 11 18 02
Project / Client	

few minutes before taking water quality measurements.

After the tubing was disconnected From the Itvicta whit, and after pumping for additional Sininutes, lister samples were collected For Field Samples, MS/MSD and

Field duplicates.

During pumping it was noticed that the winder was very herbid and the message was passed on to AMGE to project manager. EPA contractor John Burke also Felegied the message to other State holders to discuss The potential implications of this for weeter analysis.

It was mutually decided to Collect an additional Set of filtered Water samples for chemical analysis. However, he did not -have adagaste number of

Date 11-18

Project / Client

firsts filtered in the length pive to analysis of these parameters. The ansternation of the livered to unfiltered to tentile and simples in filtered semples. Voc. well not innot in filtered semples due to potential. Samples cellected as field supplicates for Hardness, SVOCS, PCBS, Pesticales and hortnicites were asked to be additional sampling. Hance Worker Jose of volatiles doing forthereturn.
All sectional samples collectedoes fooled clups were mon on field duts).

the top 3-4" of Sectionent was

cellected itsing the showel! Vol
samples were joint Collected in

the top layer. Then the sountes

were pleical in the mixing bond and maked rend Selisamples.

Project / Client
Project / Client

Callated Sediment center
Water Semmy !: 19 1575 concluded

Helms started Electrostwiking the fish and gettering small hostwiking the fish and gettering small hostwiking the freeze nets. They suggested the presence of the sound bould head, Shert work of the Shert work of the Shert work of the costs of Shert work of She

Blue gills were collected wings
herriels. A rotal of 190 bluegills,
weight of 10g. 10 of them were
meight of 10g. 10 of them were
mary duelle mersones for
mary duelle mer, 22mm, 37mm, 37
28, 36, 32, 28, 30 mm. The
average weight was 33 mm.

Location (10714) Date 11-18

coly channel cat fish carryle 1259: 268 mm length: But the sample size would be inadequate and hence nor used.

for tuman and eco-visk assessment work, bigs, ze bullhard (485g) was taken. The fish was filtered with a decontaminated kinife on a Clean Cutting brand. The skinless filter weighed 120 g. Another smaller bullhard (232 mm, 130g) was filtered The filter wir was 3ig. The filter wir was sing. The Combined (155g) and placed in a clean Ziplock bay for analysis

In addition a male Carp was also sampled (tol- W- 8709, 512mm)
The filler neight was 4109. This was also placed in a Separale bay.

( lab menascr\_

Project / Client \_\_\_\_\_\_

We ship all samples to STL.
Sevenneh for homogenization and
then send them a subscomple
for division complying. The
for division complying. The
Lab for the analysis of metals,
5 voca, PCBs, Herr/Pest, Droxing
and lipids.

All sampling equipment were decontaminated on site and packed for demobilization.

John Burke & claire Monts home CH2M Hill were asked whether we met all GA/Ac procedures, Sampling requirements number of samples etc. They agreed that we met all sampling sequirements.

reached the URS shed Sandra Braun. Contacted John Brixe and

	4

ocation Ponol Date 11-18-02

Location \_\_\_\_\_ Date \_\_\_\_

Project / Client \_\_\_

asked why we collected sediment water samples from only one elocation in the Pond ("instead of 3). I Conveyed to John & discussif with Sandra that the area covered by water is very small and It is not expected that any spatial heterogeneity world occur within buch Smallareas. In addition, we did not have necessary sampling Contained to collect two more Sets of Samples - and may be fer more days before me can get the Containers This concluded our sampling

effort at Sanger files. All egupment. were properly packaged to shipped back for ment day.

in C

Project / Client \_

Sauger, IL

### Appendix IV

Copy of Field Sheets of Field Observations and Measurements

Site ID: Pl	SITE SPECIFIC INFORMATI	
	Lanc: 90° /2' 02 5"	Date: //-18-02 Time: 8:55
Sample ID:	wind dir velocity) ( 1/1 40/ 1/2	later is a think of the second
	o, wind dir, velocity) Cold 406, 119	mulia, partiveleur
Sany Water Quality		
Water conditions: (smooth li	ght chop, cloudy, muddy, etc.) 5 ma	oth myddy
		,
Velocity:	; <i>I</i> t	dos Diska
Depth to Bottom: Bottom	**************************************	14-19
Depth: Flow Through	Conductivity:	R//
рн: 8.67	10	
Temperature: 7.9		
Middle	Turbidity	
	Conductivity:	
Depth:		
pH: Temperature:		
Surface	Tubliny.	and the same the same and the s
Depth:	Conductivity:	
pH:		
Temperature:		
Sediments		
	er, color, odor etc.):	
	organisms:	

	SIT	ГЕ СНЕСКІ	LIST			
Site ID: D!	Date: /-/8-07			Time: 8:55		
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank	
Metals Filtered: (1-250mL pl	l)			<i></i>	=	
Metals Unfilter: (1-250mL p		<u> '</u>		<u></u>		
Hardness: (1-125mL pl)	<u> </u>	<u> </u>				
VOCs: (3-40mL vial)	10'c	330		2.77	111	
SVOCs,PCBs, (7-1L gl)	<u> </u>	VIJJJJJ/		11/1/	<u> </u>	
Pest/Herbicides:	<i>(</i> ,					
Dioxins: (2-1L gl)	1/					
Bioassay:	V					
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank	
Metals: (1-250mL pl)	<u> </u>			<u> </u>	/	
VOCs: (low)(2-40mL gl)	<u> </u>	V		<u> </u>	VOC PCI	
(high)(1-40mL gl)		<u> </u>				
(1-125 mL gl)		<u> </u>			12.5	
SVOCs,PCBs, (1-500mL gl)	<u>~</u>	<u> </u>		111111	5111111	
Herb/Pesticides:						
TOC, pH: (1-250mL pl)					Asst	
Grain size: (1-500mL pl)						
Dioxins: (1-4oz gl)		<u> </u>				
Bioassay:		<u> </u>			<del></del>	
Bioaccumulation:					<del></del>	
Comments:						
Large pond in sig	<del>-</del> G					
water sample take	n in 23	-6" water				
dua small hale of le	twater s	effe		··		
			<del></del>			
				<del></del>		

SITE	E SPECIFIC INFORMATION
Site ID: RIAU	Lat: 35° 37'00.8' Date: 11-16 02_
Sample ID:	Long: 90° 10' 49.6" Time: 13.30  I dir, velocity) 40° 9 Cold, 510 mph windfrom N.
Weather: (temp, cloud, precip, wind o	dir, velocity) 40 g cold, 510 mph windfrom N
cloudy	, , , , , , , , , , , , , , , , , , , ,
Water Quality	
Water conditions: (smooth, light chop	op, cloudy, muddy, etc.) /1910 Chop, maddy
Velocity:	
Depth to Bottom: 2.6.	29-31
Bottom	
Depth: 25	Conductivity: O, 9 2 8
pH: 7,56	•
Temperature: \(\begin{align*} \Cappa_1 & \lambda_2 & \	Turbidity: 23,5
Middle	•
Depth: / 3	Conductivity: 0, 427
pH: 9,49	DO: 12.44
Temperature: 9.6	Turbidity: 24.9
Surface	
Depth:	Conductivity: O, 429
рн: 3.31	DO:
Temperature: 8.6	Turbidity: 25,3
Sediments	
Grain size: mediusta Cook	
	or, odor etc.): smecrosnics, tantogray, ne eder
Identified sediment dwelling organism	sms: shells, adinada (may fly)
	· · · · · · · · · · · · · · · · · · ·
	, 4

.

### SITE CHECKLIST Site ID: RIAU Date: 11-16-02 て Time: 13:30 Water Samples: Sample Duplicate Trip Blank Rinse Blank MS/MSD Metals Filtered: (1-250mL pl) Metals Unfilter: (1-250mL pl) Hardness: (1-125mL pl) VOCs:(3-40mL vial) SVOC3,PCBs, (7-1L gl) Pest/Herbicides: Dioxins: (2-1L gl) Bioassay: Sediment Samples: Sample **Duplicate** Trip Blank Rinse Blank MS/MSD Metals: (1-250mL pl) // VOCs: (low)(2-40mL gl) \_\_\_\_\_ (high)(1-40mL gl)(1-125 mL gl)SVOCs,PCBs, (1-500mL gl) Herb/Pesticides: **X** , TOC, pH: (1-250mL pl) Grain size: (1-500mL pl) Dioxins: (1-4oz gl) Bioassay: Bioaccumulation: Comments: moved to 103' due to rocky bottom

SITE	SPECIFIC INFORMATIO	)N
Site ID: RIAM	Lat: 30°36'54.4"	Date: 1 1.15-02
Sample ID:	Lat: 38°36'54,4% Long: 90° 10'52.1"	Time: 1440
Weather: (temp, cloud, precip, wind		
OVERCOST		
Water Quality		
Water Quality Water conditions: (smooth, light cho	p, cloudy, muddy, etc.) / ighto	liop, muddi
Velocity:	V	Photos Dists
Depth to Bottom:	<del></del>	
Bottom		
Depth: OB 1		· · · · · · · · · · · · · · · · · · ·
рН: 8, 05		
Temperature: 4.8	Turbidity: 19-5	
Middle		<b>,</b>
Depth:	Conductivity:	- · · · · · · · · · · · · · · · · · · ·
pH:		70
Temperature:	Turbidity:	To Shallow
Surface	Conductivity:	"Ou
Depth:	Conductivity:	
pH:	DO:	
Sediments	Turbianty.	
Grain size: fine to medium S	and waith	1.
Condition (high organic matter, color	odor etc.): Sinocomule 5. o	arkaratus oder
Identified sediment dwelling organism	5° 1	
The state of the s	, ,	
一个人们, 一个人		
4 1 1 1 1 1 1 1 1		
	t	
		,

44

**\***3,

# SITE CHECKLIST Site ID: RIANI Date: 11-15-02 Time: 14:40 **Duplicate** Water Samples: Sample Trip Blank MS/MSD Rinse Blank Metals Filtered: (1-250mL pl) Metals Unfilter: (1-250mL pl) Hardness: (1-125mL pl) VOCs: (3-40mL vial) SVOCs,PCBs, (7-1L gl) Pest/Herbicides: Dioxins: (2-1L gl) Bioassay: Rinse Blank Sediment Samples: Sample Duplicate Trip Blank MS/MSD Metals: (1-250mL pl) VOCs: (low)(2-40ml gl) (high)(1-40mL gl) (1-125 mL gl) SVOCs,PCBs, (1.500mL gl) Herb/Pesticides: TOC, pH: (1-250nL pl) Grain size: (1-500m, pl) Dioxins: (1-4oz gl) Bioassay: Bioaccumulation. Comments:

SITE SPE	CIFIC INFORMATI	ON
Site ID: 21B6 Lat:	38° 37′00.7″	Date: //~ / 7 - 0 2
Sample ID: Long	90'10'50.7"	Time: 0 0 5
Weather: (temp, cloud, precip, wind dir, ve	elocity) Cold 301, p.	irtlycloidy, sun.
Little wing	· · · · · · · · · · · · · · · · · · ·	
Water Quality		
Water conditions: (smooth, light chop, cloud	ıdy, muddy, etc.) <u>Smoo</u>	th, muddy
Velocity:		,
Depth to Bottom: 25	<del></del>	
Bottom		
Depth: 27' pH: 7.90	Conductivity: $O_1 = O_2$ DO: $O_2 = O_2 = O_2$	169
pH: 7.90	DO: <u>/4.67</u>	
Temperature: 7.2	Turbidity: 32.0	· · · · · · · · · · · · · · · · · · ·
Middle		
Depth:	Conductivity: 0.46	
pH: 5,36	DO: 14.48	<del></del>
Temperature: 5.2	Turbidity: 34.3	
Surface	- 4	
Depth:	Conductivity: 0,40	
pH: <u> </u>	DO: /4.47	
Temperature: 8.2	Turbidity: 5 G.	<u> </u>
Grain size: Cars Sand, Clean, re		
) ·		A
Condition (high organic matter, color, odor	_	
Identified sediment dwelling organisms:		
	<u></u>	

	SI	TE CHĖCKI	LIST			
Site ID: RIBU	_ Date	Date: 11-17-07			Time: \$ : 3 5	
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank	
Metals Filtered: (1-250mL pl	D				···········	
Metals Unfilter: (1-250mL pl	1)			<del></del>		
Hardness: (1-125mL pl)						
VOCs: (3-40mL vial)	14.1					
SVOCs,PCBs, (7-1L gl)	411111					
Pest/Herbicides:						
Dioxins: (2-1L gl)				-		
Bioassay:						
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank	
Metals: (1-250mL pl)						
VOCs: (low)(2-40mL gl)					<del></del>	
(high)(1-40mL gl)		<del></del>				
(1-125 mL gl)					<del></del>	
SVOCs,PCBs, (1-500mL gl)						
Herb/Pesticides:						
TOC, pH: (1-250mL pl)					<del></del>	
Grain size: (1-500mL pl)		·				
Dioxins: (1-4oz gl)	<del></del>					
Bioassay:		, , , , , , , , , , , , , , , , , , ,			<del></del>	
Bioaccumulation:		<del></del>		<del> </del>	***************************************	
Comments:						
					<del></del>	
	<del></del>					
				······		
			<del></del>			
	· · · · · · · · · · · · · · · · · · ·					

	SITE SPECIFIC INFORMAT	ION
Site ID: RIBAI	Lat: 38° 36 '58,1	Date: 11-16-02
Sample ID:	Long: 90° 10' 49,4'	Time: 7:50
Weather: (temp, cloud, precip,	Lat: 38° 36 '58,1 Long: 90° 10' 49,4'  wind dir, velocity) 40's , / 14/14 wi	nd, clear, somy
Water Quality		<del></del>
Water conditions: (smooth, lig	ht chop, cloudy, muddy, etc.) 19 hr	clipp, middy
Velocity:	•	,
Depth to Bottom: 21'	<i></i>	Philoz Disk 9 21-24
Bottom		2 /
Depth: 20'	Conductivity: 0.44-	<u>5'</u>
pH: 7.99	DO: 12.12	
Temperature: $\hat{\vec{J}}$	Turbidity: 25.1	
Middle		
Depth: 10'	Conductivity: 0, 4	33
pH: 4,41	DO: <u>/ 7, 39</u>	
Temperature: 4,4	Turbidity: 28.9	
Surface		
Depth:		33
pH:	DO: /Z,41	
Temperature: 8,4	Turbidity: 29.	1
Sediments		
Grain size: Coarso Sano	Julg ravo, wall sorted; color, odor etc.): Some or ganic	(, rounded
Condition (high organic matter	r, color, odor etc.): Some on ganto	· tan pooder
Identified sediment dwelling of	rganisms: catis the bottom on la	rger rocks, Zebra mussels
clanaria		

	SIT	TE CHECKI	LIST		
Site ID: [] []M	_ Date	: 11-17-0	2	Time: 7	'. 5 G
Water Samples	Samula.	Dunkasta	Twin Dlauk	Monach	Dimes Disab
Water Samples:  Metals Filtered: (1-250mL p	Sample	Duplicate /	Trip Blank	MS/MSD	Rinse Blank
Metals Unfilter: (1-250mL p				***************************************	
Hardness: (1-125mL pl)	·)_ <u>レ</u>				
VOCs: (3-40mL vial)	111	///			
SVOCs,PCBs, (7-1L gl)	SIIIII	[]]]]]]			
Pest/Herbicides:	VVVVVV				<del></del>
Dioxins: (2-1L gl)	1./	//		//	
Bioassay:	/				<del></del>
•				<del></del>	
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)	~				
VOCs: (low)(2-40mL gl)	_//	<u> </u>	<del></del>	<del></del>	
(high)(1-40mL gl)	<u> </u>				
(1-125 mL gl)	:/				
SVOCs,PCBs, (1-500mL gl)		~			
Herb/Pesticides:					
TOC, pH: (1-250mL pl)				<del></del>	
Grain size: (1-500mL pl)					
Dioxins: (1-4oz gl)					*****
Bioassay:					
Bioaccumulation:					<del></del>
Comments:			•		
good cineunt of dep				<del></del>	
Moch Bettern	societich,	névolul le m.	west south		
made 15 allomps and	mened SC'	seith			
rede K. Henry med			cit, cla	unel So	
Mru 3,7. + 3836'	55.7"	- <u></u>	· · · · · · · · · · · · · · · · · · ·		
90 1015	10.6				

Site ID: RIBD	Lat: 35° 36'53 5°	Date: 11-15-07
Sample ID:	Long: 90° 10' 52.1"	Time: 12:45
Weather: (temp, cloud, precip, v	wind dir, velocity) 40, clerdy,	Bajoh windfrem N
Water Quality		
Water conditions: (smooth, ligh	t chop, cloudy, muddy, etc.) /ig ht c	chiep, muddy
Velocity:	V	,
Depth to Bottom: 29'		
Bottom		
Depth: 25'	Conductivity: O.4	39
Depth: 25' pH: 7,90	DO: 11,90	····
Temperature: 99	Turbidity: 12.6	-
Middle		
Depth: 14'	Conductivity: 0,442	
pH: <u>§.43</u>	DO: /2,04 Turbidity: /9,8	
Temperature: 9.9	Turbidity: 17,8	· · · · · · · · · · · · · · · · · · ·
Surface	•	
Depth:	Conductivity: O 144	
pH: 6,42	DO:	
Temperature: \$,9	Turbidity: 16. C	<u>)                                    </u>
Sediments		
Condition (high organic matter,	color, odor etc.):	
	ganisms: Tricoptures on wo	
Curbicula insand (3)		
		· · · · · · · · · · · · · · · · · · ·

## SITE CHECKLIST Site ID: R/BD Date:\_\_1/15-07 Time: 12 45 Water Samples: Sample **Duplicate** Trip Blank Rinse Blank MS/MSD Metals Filtered: (1-250mL pl) Metals Unfilter: (1-250mL pl) Hardness: (1-125mL pl) VOCs: (3-40mL vial) SVOCs,PCBs, (7-1L gl) Pest/Herbicides: Dioxins: (2-1L gl) Bioassay: **Sediment Samples:** Sample Duplicate Trip Blank MS/MSD Rinse Blank Metals: (1-250mL pl) VOCs: (low)(2-40mL gl) (high)(1-40mL gl) (1-125 mL gl) SVOCs,PCBs, (1-500mL gl) Herb/Pesticides: TOC, pH: (1-250mL pl) Grain size: (1-500mL pl) Dioxins: (1-4oz gl) Bioassay: Bioaccumulation: Comments: Renthic sample IC'L sadiment Gived

S	ITE SPECIFIC INFORMATIO	ON
Site ID: RICM	Lat: 35°36'58.5"	Date: 11-16-07
Sample ID:	Lat: 35°36'58.5" Long: 90°10'52.0"	Time: 10:55
Weather: (temp, cloud, precip, w	rind dir, velocity) 40, partlyclo	udy, 5-10 uph wind from N
Water Quality		
Water conditions: (smooth, light	chop, cloudy, muddy, etc.) / ight ch	iop, muddy
Velocity:	12L st	
Depth to Bottom: 24'		s Disk8 5-28
Bottom		
Depth: 23'	Conductivity: 0,43/	
pH: 7,77	DO: <u>  12,21</u>	
Temperature: 8,5	Turbidity: 279.0	
Middle		
Depth: 12'	Conductivity: O, 43	<u> </u>
pH: 5,39		· · · · · · · · · · · · · · · · · · ·
Temperature: 8.6	Turbidity:	
Surface /		
Depth:	Conductivity: 0,425	}
pH: 0, 41	DO: 12,56	
Temperature: 8.6	Turbidity: /0/. C	
Sediments		
Grain size: Coacse Banc	Julgravel, sorter, rour	ded
Condition (high organic matter, o	color, odor etc.): some organics, to	H, No color
Identified sediment dwelling orga	anisms: 5/2// Trayments	
	•	
**************************************		

	SI	TE CHECKI	IST		
Site ID: RICM	Date: 11-16-02			Time: 10.55	
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL p	l)				
Metals Unfilter: (1-250mL p	1)	·		****************	
Hardness: (1-125mL pl)					
VOCs: (3-40mL vial)	Lelil				<del>\</del>
SVOCs,PCBs, (7-1L gl)	1/1/1/	·			Leville
Pest/Herbicides:					
Dioxins: (2-1L gl)					****
Bioassay:					
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)	J		•		
VOCs: (low)(2-40mL gl)	<b>ン</b> ン				HCI
(high)(1-40mL gl)					
(1-125 mL gl)	V				
SVOCs,PCBs, (1-500mL gl)	V				716 BATTES
Herb/Pesticides:					<b>V</b>
TOC, pH: (1-250mL pl)					
Grain size: (1-500mL pl)					
Dioxins: (1-4oz gl)					
Bioassay:					
Bioaccumulation:					
Comments:			,,		-
Clopstreen marker	bection.	35 36 57.9' <u>90 10</u> 47.4'	· ·		

SITE SPI	ECIFIC INFORMATION	I
Site ID: R2 AU Lat:	380 3/3/26,34	Date: 11-14-02
Site ID: AL Lat:_  Sample ID: Long	: 90° 11′01, 2"	Time: 12.45
Weather: (temp, cloud, precip, wind dir, ve		
50s', partly cloudy, sunny		
Water Quality	7 0	
Water conditions: (smooth, light chop, clo	udy, muddy, etc.) / 19/11 Ch	op, muchy
Water conditions: (smooth, light chop, clow	Photos Di	sk7
Depth to Bottom: 6'		
Bottom		
Depth:	Conductivity: 0.462	, <del></del>
pH: 4,16	DO: 12.68	error 3
pH: <u>8,16</u> Temperature: 9,1	Turbidity: 25. こ	
Middle		
Depth: 3'	Conductivity: 0,456	to the second se
pH:	DO: 12.28	
Temperature: 9.1	Turbidity: 29.0	
Surface		
Depth:	Conductivity: 0.456	
pH:9, 45	DO: /2,3/	
Temperature: 9.1	Turbidity: 28,4	
Sediments		
Grain size: fine sond, sorted, 1	conded	·
Condition (high organic matter, color, odor	retc.): Ir organics, brow	un, no order
Identified sediment dwelling organisms:		

	SIT	TE CHECKI	LIST		17:45
Site ID: RAAU	Date:	11-14-02		Time:	402
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL p	1)		<del></del>	<del></del>	-
Metals Unfilter: (1-250mL p	1)	,	***************************************		<del></del>
Hardness: (1-125mL pl)				<del> </del>	
VOCs: (3-40mL vial)	111			<del></del>	<del></del>
SVOCs,PCBs, (7-1L gl)	1/1///				
Pest/Herbicides:					
Dioxins: (2-1L gl)			<del></del>		
Bioassay:					<del></del>
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)					
VOCs: (low)(2-40mL gl)	//				-
(high)(1-40mL gl)					
(1-125 mL gl)					•
SVOCs,PCBs, (1-500mL gl)					
Herb/Pesticides:					
TOC, pH: (1-250mL pl)				<del></del>	
Grain size: (1-500mL pl)				***************************************	
Dioxins: (1-4oz gl)				·	
Bioassay:				*	•
Bioaccumulation:		·	Berlander restriction		
Comments:					
				<del></del>	
			· · · · · · · · · · · · · · · · · · ·		
			<del></del>		
	······································				

SITE SPE	CIFIC INFORMATION	1
Site ID: R2 AM Lat:_	38°36'191,7"	Date: 11-14-02
Sample ID:Long	9001105.1"	Time: # 14 8:10
Weather: (temp, cloud, precip, wind dir, ve	locity) <i>Cdd 40s</i> , <i>Clou</i>	ty, slight wind
Water Quality		
Water conditions: (smooth, light chop, cloud Velocity: 15'  Depth to Bottom:	Pl. + Dick	-6
Depth to Bottom:	22-25	•
Bottom	_	
Depth: 14'	Conductivity: 0,455	
pH:	DO: 12,38	
Temperature: \( \frac{\sqrt{1}}{5},  \frac{7}{2}	Turbidity: 48.1	
Middle	•	
Depth:	Conductivity: 0,453	
pH: 3.39	DO: 17,08	
Temperature:    7	Turbidity: 34.0	og and the contribution of the contribution of
Surface		
Depth:	Conductivity: 0.451	, <del>110, 120, 120, 12</del>
pH: 8,38	DO: 12.08	<del> </del>
Temperature: \$7	Turbidity: 37,5	
Sediments		
Grain size: Silty Clay W Fine Si	ncl	
Condition (high organic matter, color, odor	etc.): Organicmotter, dan	tgray, some decomposition coo
Identified sediment dwelling organisms: 1	wigs	

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SITE CHECKLIST					
Site ID: RAAM	Date: 11-14-02			Time: <u>§:16</u>	
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL p	1)		-		
Metals Unfilter: (1-250mL p	1)	$\underline{\hspace{1cm}}^{\hspace{1cm}}\nu$	<del></del>		
Hardness: (1-125mL pl)	<u> </u>				
VOCs: (3-40mL vial)	1//	111			<del></del>
SVOCs,PCBs, (7-1L gl)	11/1///	4111111			<del></del>
Pest/Herbicides:					
Dioxins: (2-1L gl)				<del></del>	
Bioassay:					
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)		/			
VOCs: (low)(2-40mL gl)	11	1/			
(high)(1-40mL gl)					
(1-125 mL gl)			<del></del>		<del></del>
SVOCs,PCBs, (1-500mL gl)					
Herb/Pesticides:					,
TOC, pH: (1-250mL pl)					
Grain size: (1-500mL pl)					
Dioxins: (1-4oz gl)					
Bioassay:					
Bioaccumulation:				•	
Comments:					
<del></del>	<del></del>				
		· · · · · · · · · · · · · · · · · · ·	<del></del>		
			· · · · · · · · · · · · · · · · · · ·		

Site ID: RAD	Lat: 38 36 19.5"	Date: 11 - 13 - 9 7
Sample ID:	Long: 90"11'04,9"	Time: 13 20
	wind dir, velocity) 50's fight will	
Water Quality	1.	· · · · · · · · · · · · · · · · · · ·
Water conditions: (smooth, light	t chop, cloudy, muddy, etc.) light c	hep, meddy
Velocity:	Plieto	5 Pist 6
Depth to Bottom: 12'	·	14 - 17
Bottom	2 447	7
Depth: 1		
pH: 8,25		
Temperature: 9.0	Turbidity: 19, 4	
Middle 5 l	~	
Depth: 5 1 pH: 3.37	Conductivity: C. 1/4	
pH:	DO: 12.6-2-	
Temperature: 7.C	Turbidity:2 & ./	
Surface i	Controlling Co (11)	7
Depth: i'		
pH: <u>\$.47</u> Temperature: <u>7.0</u>	DO: 12.5 C Turbidity: 22.6	
Sediments	Turbidity: \\ \( \sigma_{\chi, \sigma} \)	
	1. 16- wed	
Grain size: S. It. Clay Condition (high organic matter)	color, odor etc.): Somoonganic L	10H (2000)
	•	•
Identified sediment dwelling or	gainsins. 16279	

## SITE CHECKLIST Site ID: ( ) ( ) Date: 11-13-52 Time: /3:20 Water Samples: Sample **Duplicate** Trip Blank MS/MSD Rinse Blank Metals Filtered: (1-250mL pl) Metals Unfilter: (1-250mL pl) Hardness: (1-125mL pl) VOCs: (3-40mL vial) SVOCs, PCBs, (7-1L gl) Pest/Herbicides: Dioxins: (2-1L gl) Bioassay: **Sediment Samples:** Sample Duplicate Trip Blank MS/MSD Rinse Blank Metals: (1-250mL pl) VOCs: (low)(2-40mL gl) (high)(1-40mL gl) (1-125 mL gl) SVOCs,PCBs, (1-500mL gl) Herb/Pesticides: TOC, pH: (1-250mL pl) Grain size: (1-500mL pl) Dioxins: (1-4oz gl) Bioassay: Bioaccumulation: Comments:

SI	TE SPECIFIC INFORMATI	ION
Site ID: R 2 130	Lat: 35° 36'26.00	Date: 11-15-02
Sample ID:	Long: 90" 11'00, 4"	Date: $1/-15-02$ Time: $5:10$
	nd dir, velocity) 40s, overcas	
Water Quality	•	
Water conditions: (smooth, light o	chop, cloudy, muddy, etc.) light	chop, muddy
Velocity:	V	,
Depth to Bottom: 21'		
Bottom		
Depth: 20'	Conductivity: 0.446	2
pH:7\$0	DO: 11.68	Horiba
Temperature: 8.9	Turbidity: 18,9	
Middle		
Depth: //	Conductivity: 0,44	19
pH: 8,42	DO: 11.77	
Temperature: 8.9	Turbidity: 76.5	
Surface		
Depth:	Conductivity: 0,44	<u>'l</u>
pH: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	DO: 11.73	
Temperature: 9.7	Turbidity: 26.2	
Sediments		
Grain size: Fine to med 50	and, rounded, sarted	
Condition (high organic matter, co	olor, odor etc.): <u>No expanies;</u> gi	ray, 110 odor
	nisms:	

#### SITE CHECKLIST

Site ID: GRU	Dat	e: <u>11-15-0</u> 2	, 5	Time:	.10
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL	pl)				
Metals Unfilter: (1-250mL	pl)	,			<del></del>
Hardness: (1-125mL pl)					
VOCs: (3-40mL vial)	111				
SVOCs,PCBs, (7-1L gl)	ردادداك				
Pest/Herbicides:					
Dioxins: (2-1L gl)		-			···
Bioassay:		-			<del></del>
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)	$\checkmark$				
VOCs: (low)(2-40mL gl)	<u> </u>				
(high)(1-40mL gl)					
(1-125 mL gl)					
SVOCs,PCBs, (1-500mL g	1)				<del></del>
Herb/Pesticides:					
TOC, pH: (1-250mL pl)					
Grain size: (1-500mL pl)					
Dioxins: (1-4oz gl)					
Bioassay:	<u>./</u>	<del></del>			
Bioaccumulation:					
Comments:					
Dank Marker	<u> 35°36'</u>	26.0"			
R2U	1011	00.4			
	· <del></del>				
				·····	
	······································				
				<del></del>	

SITE SPI	ECIFIC INFORMATION	N
Site ID: R2BM Lat:	39° 36'22.2'	Date: 1/-14-02
Sample ID: Long	z: 90° 11'04, 2"	Time: 9.45
Site ID: R2 BM Lat:  Sample ID: Long  Weather: (temp, cloud, precip, wind dir, ve	elocity) 50%, partly close	edy, light wind
		/
Water Quality	·	1 4
Water conditions: (smooth, light chop, clo	udy, muddy, etc.) <u>light chop</u>	, michay
Velocity:	Photo D	lisk 6
Depth to Bottom: 20'	2 <b>6</b> -3	29
Bottom		,
Depth: 19'	Conductivity: 0.455	
pH: 7, 93	DO: 12.16	
pH: 7, 93 Temperature: 8,8	Turbidity: 26.9	
Middle		
Depth:	Conductivity: 0.459	-
рн: 5.30	DO: 17,77	
Temperature: 8,8	Turbidity: 31, 5	<del></del>
Surface		
Depth:	Conductivity: 0,447	· · · · · · · · · · · · · · · · · · ·
pH:8,36	DO: 12,22	
Temperature: \$6.8	Turbidity: 27.5	
Sediments		
Grain size: modium sand , 5	ierted, recuded,	
Condition (high organic matter, color, odo	retc.): no erganics, tan,	no-clor
Identified sediment dwelling organisms:	<u> </u>	
		····
		· · · · · · · · · · · · · · · · · · ·

Site ID: R2 BM	Date: 11-14-07			Time: 9 45	
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL pl					
Metals Unfilter: (1-250mL pl	1)	<del></del>	<del></del>		
Hardness: (1-125mL pl)			<del></del>		
VOCs: (3-40mL vial)		***	************		<del></del>
SVOCs,PCBs, (7-1L gl)	11/11/1				<del></del>
Pest/Herbicides:					
Dioxins: (2-1L gl)	//				
Bioassay:					***************************************
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)					
VOCs: (low)(2-40mL gl)	//				
(high)(1-40mL gl)					
(1-125 mL gl)				<del></del>	
SVOCs,PCBs, (1-500mL gl)			<del> </del>		
Herb/Pesticides:					
TOC, pH: (1-250mL pl)				<del></del>	
Grain size: (1-500mL pl)			<del></del>		
Dioxins: (1-4oz gl)					
Bioassay:					
Bioaccumulation:				***************************************	
Comments:					
coaldist from	Coal /	cadinger	Derations	5 < 1CC	Canaya
it conting all surfa	1009				
J	<u></u> .			·-·	

SITE SPI	ECIFIC INFORMATION	4
Site ID: <u>R2131</u> Lat:	39°36'19 8"	Date: 11.18.02
Sample ID: Long	g: 90°11'05,0"	Time: 14 50
Site ID: <u>R2131</u> Lat:  Sample ID: Long  Weather: (temp, cloud, precip, wind dir, ve	elocity) <u>SOS, Clear, So</u>	any light wind
Water Quality	1	
Water conditions: (smooth, light chop, clo	udy, muddy, etc.) I ish it Co	hop, muddy
Velocity:	Photo	es Dist 6
Depth to Bottom: 2,0'	<i>i</i>	G-21
Bottom		
Depth: 19	Conductivity: 6.445	
Depth: 19' pH: 7,85	DO: 12,59	_,
Temperature: 4,1	Turbidity: 22,5	
Middle		
Depth:/(`	Conductivity: <u>C. 945</u>	
pH: 5.43	DO: 12,55	
Temperature: 7,1	Turbidity: 23.3	<del></del>
Surface		
Depth:	Conductivity: 0.445	and the state of t
pH: 5 37	DO: 17.50	
Temperature: ?.	Turbidity: 23.5	
Sediments		,
Grain size: 3 ty squal, fine to		
Condition (high organic matter, color, odo Identified sediment dwelling organisms: C	r etc.): joneorganics, bi	can, no eder
Identified sediment dwelling organisms: C	introly larve on lar	ger Rocks
	·	

#### SITE CHECKLIST

Site ID: 13 C Z				
Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
pl)				***
pl) <u></u>	,	<del></del>		
	<del></del>	<del></del>		
<u> </u>	<del></del>	<del></del>		-
11				-
<del></del>	<del></del>	<del></del>		-
			<del></del>	
Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
<del></del>				
	<del></del>	<del></del>	<del></del>	
-				<del></del>
	***************************************			
١ _ ـ				
<u> </u>	<del></del>			
<u></u>				
			·····	
<del>,</del>				
	<del></del>	<del></del>	···	
	··			
			· · · · · · · · · · · · · · · · · · ·	
<del></del>			<del></del>	
	Sample pl) pl) Sample	Sample Duplicate  pl)	Sample Duplicate Trip Blank    Duplicate Trip Blank	Sample Duplicate Trip Blank MS/MSD  pl)

C	ITE SPECIFIC INFORMATION	ON
Site ID: R2AM	Lat: 39"36'22.7"	Date: 11-14-02
Sample ID:	Long: 90° 11'05,9"	Time: $I = O \circ O$
Weather: (temp, cloud, precip, w	Long: 90° 11'05,9"  vind dir, velocity) 50° , parlty Cla	endy, lightwind, suny
Water Quality		
Water conditions: (smooth, light	chop, cloudy, muddy, etc.) light c	hop, muddy
Velocity:	٧	/
Depth to Bottom: 19'		Photos Disk 7
Bottom		1-7
Depth: /5'	Conductivity: 0,45	7
pH: 3.08	DO: 12.34	Cirons Ci, Horika
Temperature: 5,5	Turbidity:	Horika
Middle	·	
Depth: 9'	Conductivity: $\circ, 4 \leq$	54
pH: \$,50	DO:1 Z. 30	64 error3 on Hariba
Temperature: 4,4		
Surface		
Depth:	Conductivity: 0:45	3
pH: 9.44	DO: 12.33	
Temperature: 5.9	Turbidity: 19, 1	
Sediments		
Grain size: Mcdium To coo	irse sand ported, rounde	2d
	color, odor etc.): <u>no organica, noc</u> o	_
Identified sediment dwelling org	anisms:	
**************************************		

SITE CHECKLIST					
Site ID: KLEM	Date: 11-14-02			Time: 11:00	
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL p	1)		<del></del>		
Metals Unfilter: (1-250mL p	1)			·	
Hardness: (1-125mL pl)					
VOCs: (3-40mL vial)	11/				**************************************
SVOCs,PCBs, (7-1L gl)	[]]]]]]				
Pest/Herbicides:					
Dioxins: (2-1L gl)					· · · · · · · · · · · · · · · · · · ·
Bioassay:		<del></del>		<del></del>	
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)	<u> </u>	<del></del>	·		
VOCs: (low)(2-40mL gl)	<u> </u>	-			
(high)(1-40mL gl)	<u> </u>		-		
(1-125 mL gl)	·/				
SVOCs,PCBs, (1-500mL gl)	<u> </u>				
Herb/Pesticides:					
TOC, pH: (1-250mL pl)			***************************************		
Grain size: (1-500mL pl)					
Dioxins: (1-4oz gl)	<del></del>				
Bioassay:					
Bioaccumulation;					
Comments:					

Photos Disk 6 6-9

SITE	SPECIFIC INFORMATI	ON
		Date: 11-13-02
Sample ID: L		
Weather: (temp, cloud, precip, wind di	ir, velocity) <u>Co/C/ 4() -50</u>	3, Slightwind, Scinny,
Ckar		······································
Water Quality	1	
Water conditions: (smooth, light chop,	, cloudy, muddy, etc.) ly:hf	nop, muddy
Velocity:		
Depth to Bottom: 17	·····	
Bottom	0. 1/2	<i>,</i> ,
Depth: 16	Conductivity: 0.47	
pH: \$'.C'5	DO: 12,26	
Temperature: 5.7	Turbidity: 421.0	
Middle	, me	
Depth: 5'	Conductivity: 0,48	
pH: \$.16	DO: 12.10	
Temperature: 3, 7	Turbidity: 48,1	·
Surface	- (	
Depth:	Conductivity: 0.4	ı
pH: 8:19	DO:	
Temperature: 8,7	Turbidity: 5 6, 5	
Sediments		
Grain size: Silty Clay w/ Fine sou	nc(	
Condition (high organic matter, color, Identified sediment dwelling organism	odor etc.): <u>Maganica, decomp</u>	sition smell, obit brown to deit gray
Identified sediment dwelling organism	s: some buscuing of	gas pochers

SITE CHECKLIST					
Site ID: R3AL'	_ Date:	11-13-0	2	Time: 9.	75
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL p	1)		<del></del>		
Metals Unfilter: (1-250mL p		<del></del>			
Hardness: (1-125mL pl)					
VOCs: (3-40mL vial)			<del></del>		
SVOCs,PCBs, (7-1L gl)	4.11115	<del></del>			
Pest/Herbicides:					
Dioxins: (2-1L gl)	<del></del>				
Bioassay:			<del></del>		
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)					
VOCs: (low)(2-40mL gl)					
(high)(1-40mL gl)					<del></del>
(1-125 mL gl)					
SVOCs,PCBs, (1-500mL gl)				<del></del>	<del></del>
Herb/Pesticides:					
TOC, pH: (1-250mL pl)					
Grain size: (1-500mL pl)					<del></del>
Dioxins: (1-4oz gl)					
Bioassay:					
Bioaccumulation:					
Comments:					
-	<del></del>		<del></del>	<del></del>	
				<del></del>	
		<del>, ,,, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	<del></del>		

	M			
SITE SPECIFIC INFORMATION				
Site ID: R3AM Lat:_	35° 35'449" Date: 11-12-07			
Sample ID: Long:	$\frac{35^{\circ} \ 35'449''}{10^{\circ} \ 11'25.3''}$ Date: $\frac{11\cdot12-02}{12\cdot35}$			
	ocity) Cold 50% clear, moderate wint			
Water Quality				
Water conditions: (smooth, light chop, cloud	dy, muddy, etc.) smooth to late cirp			
Velocity:	• •			
Depth to Bottom: !4'	- No photos			
Bottom	•			
Depth: 13'	Conductivity: 0,463			
pH: \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	DO: 12.32			
Temperature: 9.0	Turbidity: 25, 3			
Middle				
Depth:	Conductivity: 0,461			
pH: 8.35	DO:			
Temperature: 9.1	Turbidity: 24.5			
Surface				
Depth:	Conductivity: 0.459			
pH: 8.36	DO: 12.43			
Temperature: 9,1	Turbidity: 25. 9			
Sediments				
Grain size: Insand, Silt, with	Clay			
	etc.): dark gray, smell of decompositions by decorbons			
Identified sediment dwelling organisms: <	one plant mate			
francisco de la constante de l	.1 ,			
Chillen in 4 y depth Drown Ich	the keyre, y			

SITE CHECKLIST					
Site ID: R3AM	_ Date	: 11-12-0	3	Time:/	2:33
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL pl	l)		<del></del>		
Metals Unfilter: (1-250mL p	1)	, 		<del></del>	
Hardness: (1-125mL pl)	<u> </u>				
VOCs: (3-40mL vial)	<u> </u>				-
SVOCs,PCBs, (7-1L gl)	VVJUV	<del></del>			
Pest/Herbicides:					
Dioxins: (2-1L gl)			<del></del>		-
Bioassay:					
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)	<u> </u>		·····		-
VOCs: (low)(2-40mL gl)	<u>v                                    </u>				
(high)(1-40mL gl)				<del></del>	
(1-125 mL gl)					
SVOCs,PCBs, (1-500mL gl)		***	·		
Herb/Pesticides:					
TOC, pH: (1-250mL pl)		***			
Grain size: (1-500mL pl)	<u></u>				
Dioxins: (1-4oz gl)					
Bioassay:					
Bioaccumulation:					
Comments:					
		<del></del>			
			<del></del>		
			<del></del>		
				····	

SITE SPI	ECIFIC INFORMATION	٧
Site ID: R3AD Lat:	38°35'26.5'	Date: 11-12-02
Site ID: R3A1) Lat:  Sample ID: Long  Weather: (temp, cloud, precip, wind dir, ve	elocity) Overcast + Cc	ld 40s, lightwind
Water Quality Water conditions: (smooth, light chop, clo	udy, muddy, etc.) s MCoil	1. meddy
Velocity:	, , , , , , , , , , , , , , , , , , , ,	7
Depth to Bottom: 9'	<del></del>	
Bottom  Depth: 5  pH: 7.72  Temperature: 8.8  Middle	Conductivity: 0.471  DO: 12.17  Turbidity: 23.9	
Depth: 4'	Conductivity: 0.469	
	DO: /2.3/	
pH: 8 C1 Temperature: 5.8	Turbidity: 21,6	
Surface		
Depth:	Conductivity: 0.467	
pH:	DO: /2,33	
Temperature: 5.8	Turbidity: ZG. 4	
Sediments Grain size: fine temedien sand with	silt, comse grains	inclust both in a sumple
Condition (high organic matter, color, odo	retc.): organic maller (wood	1), some potrillin smell withing
Identified sediment dwelling organisms:		

Date Sample	Duplicate	Trip Blank	Time:	Rinse Blank
	Duplicate	Trip Blank	MS/MSD	Rinse Blank
<i>J</i>	•			
<del></del>	•			
1		<del></del>		<del></del>
	<del></del>			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<del></del>		<del></del>
11/2/11				<del></del>
-			<del></del>	
Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
<u> </u>				<del></del>
<u> </u>	<del></del>			
<u> </u>		<del></del>	· · · · · · · · · · · · · · · · · · ·	
<u> </u>	<del></del>			<del></del>
	<del></del>	<del></del>	<del></del>	
<del></del>				
		<del></del>		
taic	sand sull	datantistica	•	
	Sample  V  V  V  V  V  V  V  V  V  V  V  V  V	Sample Duplicate	Sample Duplicate Trip Blank	Sample Duplicate Trip Blank MS/MSD

SIT	TE SPECIFIC INFORMATION	ON
Site ID: <u>R3 BU</u>	Lat: 38°35'48,33	Date: 11-13-02
Sample ID:		Time: 10:55
Weather: (temp, cloud, precip, win	d dir, velocity) SO's, Sunny	, Clear, light wind
Water Quality		
Water conditions: (smooth, light ch	nop, cloudy, muddy, etc.)	hop, middy
Velocity:		ics Disk 6
Depth to Bottom:	<u> </u>	10-13
Bottom		
Depth: 4'	Conductivity: 0.46	7
pH:	DO: 12.45	
Temperature: 58	Turbidity: 25, 2	
Middle		
Depth: 2'	Conductivity: 0,46	3
pH: \$.07	DO: 12,45	
Temperature: 8.5	Turbidity: 30.5	
Surface		
Depth:	Conductivity: 0.40	53
pH: 3,26	DO: 12,43	
Temperature: $3,9$	Turbidity: 2.70	
Sediments Too I"	muttill and all holem	
Grain size: 5/1/yCky	Course Sand Epi"	
Condition (high organic matter, col	Tepi" lor, odor etc.): <u>crypuk mader, darkgra</u>	y, moder moisymemoter, brown moder
Identified sediment dwelling organ	isms: none notant	

#### SITE CHECKLIST

07.20					
Site ID: <u>R3 BU</u>	_ Date:_	11-13-02	<del></del>	Time: 1C:	55
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL pl	)		<del></del>		
Metals Unfilter: (1-250mL pl					
Hardness: (1-125mL pl)	<u> </u>			<del></del>	
VOCs: (3-40mL vial)	<u> </u>				
SVOCs,PCBs, (7-1L gl)	V.J. Silv		<del></del>	<del></del>	
Pest/Herbicides:					
Dioxins: (2-1L gl)					
Bioassay:					-
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)					
VOCs: (low)(2-40mL gl)	1/				
(high)(1-40mL gl)	_/_	~			
(1-125 mL gl)					-
SVOCs,PCBs, (1-500mL gl)		•			
Herb/Pesticides:					
TOC, pH: (1-250mL pl)					
Grain size: (1-500mL pl)			·		
Dioxins: (1-4oz gl)					
Bioassay:					
Bioaccumulation:					
Comments:					
with Sidiments in	rixed the	2500/10-19	to 3",1"c	bystsills, 2"	15anD
			·		
	<del> </del>				
			<del></del>		
		<del></del>			
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SITE	SPECIFIC INFORMATION	N	
Site ID: R3BM	Lat: 35 25 44.81	Date:	11-12-02
Sample ID:	Long: 90° 11' Z6. 6"	Time:_	13:40
Weather: (temp, cloud, precip, wind	dir, velocity) Sunny, clear	, 50g	, slight wind
Water Quality			
Water conditions: (smooth, light cho	p, cloudy, muddy, etc.)	5	3 light chop
Velocity:	, .		•
Depth to Bottom: / 3'			
Bottom			
Depth: 12'	Conductivity: (), 463		
pH: 7.93	DO: 12,40		
Temperature: 9.1			
Middle			
Depth: 6	Conductivity: 0,457		
pH: 3.44			
Temperature: 7,1	Turbidity: 23.7		
Surface			
Depth:	Conductivity: 0.457		
pH: 8.35	DO: 12.42		
Temperature: 9.1	Turbidity: 24,4		
Sediments 5p	Phys 1	11	
Grain size: Fine South 5 ilt & Clay	rine Sond w/S:H mediu	miscorre	sandw/silt
Condition (high organic matter, color	r, odor etc.): darkgray, 10 o	rder	
Identified sediment dwelling organism	ms: Thels incliving o	19 411 151	45
			<del></del>
			<del></del>
			<del></del>
W		<del></del>	

	SI	TE CHECKI	LIST			
Site ID: R 3 BM	Dat	Date: 11-12-07			Time: 13:40	
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank	
Metals Filtered: (1-250mL	pl) <u> </u>	·				
Metals Unfilter: (1-250mL	pl)	/				
Hardness: (1-125mL pl)	\ 	<del></del>			<del></del>	
VOCs: (3-40mL vial)						
SVOCs,PCBs, (7-1L gl)	· Andrews	-				
Pest/Herbicides:						
Dioxins: (2-1L gl)	36					
Bioassay:						
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank	
Metals: (1-250mL pl)					*************************	
VOCs: (low)(2-40mL gl)	1/					
(high)(1-40mL gl)						
(1-125 mL gl)						
SVOCs,PCBs, (1-500mL gl	)				<del></del>	
Herb/Pesticides:						
TOC, pH: (1-250mL pl)	<u> </u>	······································			<del></del>	
Grain size: (1-500mL pl)					<del></del>	
Dioxins: (1-4oz gl)						
Bioassay:						
Bioaccumulation:	<u></u>					
Comments:						

Site ID: <u>R3BD</u>	Lat: 35' 35' 26,5"	Date: 11-12-03
Sample ID:	Lat: 35'35'26,5" Long: 90°11'42.0'	Time: 16:45
Weather: (temp, cloud, precip, v	wind dir, velocity) Cold 405-5	Os Clear light
wind	······································	, , , , , , , , , , , , , , , , , , ,
Water Quality		
Water conditions: (smooth, ligh	t chop, cloudy, muddy, etc.) <u>Smov</u>	4 t modely
Velocity:		,
Depth to Bottom: 15'		
Bottom		
Depth: 14'	Conductivity: 0,45	5
pH: 4.09	DO: 12.26	
Temperature: $\mathcal{L}$	Turbidity: <u>31, 2</u>	
Middle		
Depth:		
pH: 8, 39		
Temperature: 5 9	Turbidity: 26.4	
Surface		_
Depth:		
pH: 5.38		
Temperature: 8,9	Turbidity: 27.9	
Sediments	4	
Grain size: Coarse Sana		
Condition (high organic matter,	color, odor etc.): fan, clean,	ader the visit
Identified sediment dwelling org	ganisms: ik vigable csgziiism	<del>5</del>
•		

## SITE CHECKLIST Site ID: <u>R3B1</u> Time: 10:45 Date: 11-12-62 Water Samples: Sample Duplicate Trip Blank MS/MSD Rinse Blank Metals Filtered: (1-250mL pl) Metals Unfilter: (1-250mL pl) Hardness: (1-125mL pl) VOCs: (3-40mL vial) SVOCs,PCBs, (7-1L gl) Pest/Herbicides: Dioxins: (2-1L gl) Bioassay: **Sediment Samples:** Sample Duplicate Rinse Blank Trip Blank MS/MSD Metals: (1-250mL pl) THE SIV VOCs: (low)(2-40mL gl) (high)(1-40mL gl)(1-125 mL gl) v SVOCs,PCBs, (1-500mL gl) Herb/Pesticides: TOC, pH: (1-250mL pl) Grain size: (1-500mL pl) Dioxins: (1-4oz gl) Bioassay: Bioaccumulation: Comments: possible Kickup of sediments in 2 1 Leters and in 2,51

SITE	SPE	CIFIC INFORMAT	ION
Site ID: R ZM	Lat:	38"3545.8"	Date: 1/-13-02
Sample ID:	Long:	90°11'28,5"	Date: $1/-13\sim 2$ Time: $9:10$
Weather: (temp, cloud, precip, wind d	lir, vel	ocity) <u>Cold 40%, Cl</u>	ear, sunny, lightwind
Water Quality	· · · · · · · · · · · · · · · · · · ·		
Water conditions: (smooth, light chop	, clou	dy, muddy, etc.) Smce	th, muddy
Velocity:			o Disk6
Depth to Bottom: 13'		_	et .
Bottom			
Depth: 12'		Conductivity: 0.45	<u>/</u>
pH: \\\ \\\ \\\ \\\\\\\\\\\\\\\\\\\\\\\\		DO: 12.44	<del></del>
Temperature: 8.6		Turbidity: 26.	3
Middle			
Depth: 6		Conductivity: C, 45	5
pH:844		DO: 12,45	
Temperature: 8.6		Turbidity: 24.7	
Surface			
Depth:/		Conductivity: 0,4	54
pH: 8.39		DO: 12,45	
Temperature: 8.7		Turbidity: 57 Z	5, 5
Sediments			
Grain size: Coarse Sand, we			
Condition (high organic matter, color,	, odor	etc.): lirett, mader	no organic mater
Identified sediment dwelling organism	ns:		
***************************************			
	<del></del>		
	··		

	SI	TE CHECKI	LIST		
Site ID: R 3CM Date: 11-13-07 Time: 5.10					
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL pl	l)		·····		<del></del>
Metals Unfilter: (1-250mL p	l)				-
Hardness: (1-125mL pl)	<u>~</u>		<del></del>		<del></del>
VOCs: (3-40mL vial)	111			4	
SVOCs,PCBs, (7-1L gl)	JULIN .			1/1/1//	
Pest/Herbicides:					
Dioxins: (2-1L gl)					
Bioassay:					
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)					
VOCs: (low)(2-40mL gl)	J:/_			VV	
(high)(1-40mL gl)			<del></del>		
(1-125 mL gl)		<del></del>			
SVOCs,PCBs, (1-500mL gl)					
Herb/Pesticides:	,				
TOC, pH: (1-250mL pl)					
Grain size: (1-500mL pl)					
Dioxins: (1-4oz gl)					
Bioassay:	<u>*</u> /			<del></del>	
Bioaccumulation:					
Comments:					
			·····		
					······································
				<del></del>	
	<u> </u>				

Site ID: 211211	Lat: 35° 35′ 75,5°	Date: 1-11:00
Sample ID:	Lat: 35° 35' 25.5' Long: 36°!!' 21,6"	Time: 15:00
Weather: (temp, cloud, precip,	wind dir, velocity) partly cloudy,	Told 405, stight wino
Water Quality	<u>.</u>	
·	tht chop, cloudy, muddy, etc.) nosth, sm	oth lia hy current
Velocity:	, 1, 3, 3, ,———	Photos Lisk 5
Depth to Bottom:		1-4
Bottom		•
Depth:5	Conductivity: 0.464	
pH:		
Temperature: 9.2		
Middle		
Depth:	Conductivity: o, 964	<u>,                                      </u>
pH: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Temperature: ?.2		
Surface		
Depth:	Conductivity: 0.463	
pH:	DO: <u>'7,7"</u>	
Temperature: 9,0	Turbidity: 22,7	
Sediments		
Grain size: <u>medium to coors so</u>	unds with siff, rounded	
Condition (high organic matter	r, color, odor etc.): dartgray to beown	
Identified sediment dwelling o	organisms:	
brown on top 1/2"	, dark gray deepper, grave through	shout
	·	<del></del>
	·	

mple				: <i>o</i>
P	Duplicate	Trip Blank	MS/MSD	Rinse Blank
<u>'</u>		·		
<u> </u>				
<u> </u>				
11		***************************************		
			<del></del>	***
	<del></del>	Period and the second s		
mple	Duplicate	Trip Blank	MS/MSD	Rinse Blank
<u> </u>				
, ———		·		
, 	<del></del>	<del></del>		
<del></del>			· · · · · · · · · · · · · · · · · · ·	
<u>′</u>				
<u> </u>				
	mple	mple Duplicate	mple Duplicate Trip Blank	mple Duplicate Trip Blank MS/MSD

SITE SP	PECIFIC INFORMATION	N
Site ID: RYAM Lat:	38° 35′ 24.4"	Date: 11-10-02
Sample ID: Lon	: 38° 35′24.4" ng: 90° 11° 43.7"	Time: / [ . ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [
Weather: (temp, cloud, precip, wind dir,	velocity) COOL bree 3	u - 5 - 10 mgh
Clarky of + on ra	11	0
Water Quality		•
Water conditions: (smooth, light chop, clevelocity:  Depth to Bottom:	oudy, muddy, etc.) full 1	noung current
Velocity:	0	7. 6.11
Depth to Bottom: 11ft		VISK 903
20ttom		١ .
Depth: 10+f	Conductivity: , 46	<u>8</u>
pH: 8.70	DO: 12.14	
Temperature: 9 · 1	Turbidity: $\frac{\partial 8}{\partial 5}$	<del></del>
Middle		1
Depth: 5 ft pH: 8 - 1 3	Conductivity: -469	f 
	DO:	<del></del>
Temperature: 9. (	Turbidity:	
Surface	Conductivity: ,462	
Depth: [ ] PH: [ ] 3	DO: 11.73	
Temperature: 9.1	Turbidity: 30 · 8	
Sediments	Turoisity.	
Grain size: fine to chedeum	sand with small p	relifices.
Condition (high organic matter, color, od	or etc.): (1) Or Maynic A	nell
Identified sediment dwelling organisms:_	<u> </u>	
Zepsa mussels rocks when Ga	are been on	some larger
rough when gra	be were mad	de for
Sanples.		

## SITE CHECKLIST

Site ID: RYAM	Date	e: <u>      -     0 -  </u>	1/1-	Time:	0
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL p	ol)	<del></del>	*****************		
Metals Unfilter: (1-250mL)	ol)(lo	<del></del>	<del></del>		
Hardness: (1-125mL pl)	<del></del>	<del></del>			
VOCs: (3-40mL vial)	1				
SVOCs,PCBs, (7-1L gl)					
Pest/Herbicides:	-				
Dioxins: (2-1L gl)	<i>—</i>	<del></del>			**************************************
Bioassay:					
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)	<u>/</u>				·
VOCs: (low)(2-40mL gl)	$\sqrt{}$				
(high)(1-40mL gl)		<del></del>	·	<del></del>	
(1-125 mL gl)	<del></del>				
SVOCs,PCBs, (1-500mL gl)	)				<del></del>
Herb/Pesticides:					
TOC, pH: (1-250mL pl)		profite the first of the second secon		************	<del></del>
Grain size: (1-500mL pl)		<del></del>			
Dioxins: (1-4oz gl)					
Bioassay:	—				
Bioaccumulation:					<del></del>
Comments:					
1 3% 35'2	4.0"				
W 090° 11' 4	13.1				
V V V II	<del>12/-2- </del>				
			<del>, , , , , , , , , , , , , , , , , , , </del>	····	<del></del>

# SITE CHECKLIST Site ID: Sy AD Time: 8:15 am Date: 11-10-09 Trip Blank Water Samples: **Duplicate** MS/MSD Sample Rinse Blank Metals Filtered: (1-250mL pl)\_\_\_\_ Metals Unfilter: (1-250mL pl) Hardness: (1-125mL pl) VOCs: (3-40mL vial) SVOCs,PCBs, (7-1L gl) Pest/Herbicides: Dioxins: (2-1L gl) Bioassay: **Sediment Samples: Duplicate** Rinse Blank Sample Trip Blank MS/MSD Metals: (1-250mL pl) VOCs: (low)(2-40mL gl) (high)(1-40mL gl) (1-125 mL gl) SVOCs,PCBs, (1-500mL gl) Herb/Pesticides: TOC, pH: (1-250mL pl) Grain size: (1-500mL pl) Dioxins: (1-4oz gl) Bioassay: Bioaccumulation: Comments:

	CCIFIC INFORMATION
Site ID: RUBU Lat:	20035121.3" Date: 11-11-02
Sample ID: Long	(10° 11' 42.0" Time: 18: 10 pm
Weather: (temp, cloud, precip, wind dir, ve	30°35'21.3"  Date: 11-11-02  Time: 18: 10 pm  Hocity) State: 110 pm
Water Quality	,
Water conditions: (smooth, light chop, clou	ady, muddy, etc. Past Moreus Curner
Velocity:	Dick 5
Depth to Bottom: 10+4	- r d
Bottom	<b>り</b> -8
Depth: 9f f pH: 7.85	Conductivity:
pH: 7.85	Conductivity:
Temperature: 9.9	Turbidity: 50.
Middle	
Depth: 5	Conductivity: 473
pH: 8.39	DO: 13.76
Temperature: 9.3	Turbidity:
Surface	/
Depth:	Conductivity: 474
pH: \(\frac{7.39}{3.5}\)	DO: 12.69
Temperature: (1, 3)	Turbidity: 3!.1
Sediments	
	Se sund well sorted, rounded
Condition (high organic matter, color, odor	
Identified sediment dwelling organisms: 1	Organismo fousa.

SITE CHECKLIST					
Site DESSEL	_ Date	e: <u>  -  </u>	-02.	Time:	5:10,0
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL p	· (l)			·	
Metals Unfilter: (1-250mL p	1)				
Hardness: (1-125mL pl)	<u> </u>		**************************************		
VOCs: (3-40mL vial)	<u> </u>				
SVOCs,PCBs, (7-1L gl)	1 - 1 -			<u> </u>	
Pest/Herbicides:	- + +				
Dioxins: (2-1L gl)	-	****	<del></del>		*****
Bioassay:	<u></u>				<del></del>
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)	· · · · · ·	·			
VOCs: (low)(2-40mL gl)	24				
(high)(1-40mL gl)	<u> </u>				
(1-125 mL gl)	<u> </u>				
SVOCs,PCBs, (1-500mL gl)	<u>v</u>				
Herb/Pesticides:	. •				
TOC, pH: (1-250mL pl)	<u> </u>				
Grain size: (1-500mL pl)	<u> </u>				
Dioxins: (1-4oz gl)			<del></del>		
Bioassay:					
Bioaccumulation:					
Comments:					
		<del></del>			
~.····································	<del></del>				

SITE SPE	CIFIC INFORMATION
Site ID: 24BM Lat: 3	8°35'23.7" Date: 11-11-02
Sample ID: Long:	90°11' 43 5" Time: 8 07 cm
Weather: (temp, cloud, precip, wind dir, vel	ocity) Sunny, Cold 40's
light breeze rid	. 0 '
Water Quality	· ·
Water conditions: (smooth, light chop, cloud	dy, muddy, etc.) Jast moung cicunt Rélatively c'alm
Velocity:	helatively calm
Depth to Bottom: 11.ft	- Pictures Disk4
Bottom	#24-27
Depth: 10 f f	Conductivity: , 445
pH: 7.85	DO: 12.61
Temperature: 8-7°C	Turbidity: 159.0
Middle	. / 10
Depth:	Conductivity: +400
pH: \$,34	DO: 12.59
Temperature: 8.8°C	Turbidity: 133.0
Surface	
Depth: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Conductivity: , 444
pH: 3,17	DO: 12.58
Temperature: 3.5°C	Turbidity: 117 · D
Sediments	
Grain size: The County of Court	Est Said Soul set prelly
Condition (high organic matter, color, odor	etc.): fromograms some self pretty to Organisms Netected
Identified sediment dwelling organisms: <u>Wi</u>	10 Organisms Nitectia

SITE CHECKLIST					
Site ID: 3413n7	_ Date:_	11-11-	02	Time: Š	07an
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL p	1)				
Metals Unfilter: (1-250mL p	1)				<del></del>
Hardness: (1-125mL pl)					
VOCs: (3-40mL vial)			<del></del>		<del></del>
SVOCs,PCBs, (7-1L gl)					
Pest/Herbicides:					
Dioxins: (2-1L gl)	1		· · · · · · · · · · · · · · · · · · ·		
Bioassay:					
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)			<u>-</u>		
VOCs: (low)(2-40mL gl)	V.V				
(high)(1-40mL gl)	<u> </u>				<del></del>
(1-125 mL gl)					
SVOCs,PCBs, (1-500mL gl)					
Herb/Pesticides:					
TOC, pH: (1-250mL pl)		***************************************	•		
Grain size: (1-500mL pl)					
Dioxins: (1-4oz gl)					
Bioassay:					1
Bioaccumulation:	<u> </u>				
Comments:	- — <del>-</del>	<b>.</b>		•	
				···	

SITE SPECIFIC INFORMATION	
Site ID: PYBD Lat: 38°35'23.2! Date: 11-10-02	
Sample ID: Long: CC' 11 48, Di Time: C1. 30000	1
Weather: (temp, cloud, precip, wind dir, velocity) Light	}
buene	
Water Quality	
Water conditions: (smooth, light chop, cloudy, muddy, etc.) Relativeix, Calm, Sao m	
Velocity:	
Depth to Bottom: 12 97	
Bottom 16-19	
Depth: 11 Conductivity: , 414	
pH: 8.20 DO: 12.16	
Temperature: 9.0 Turbidity: 37.5	
Middle	
Depth: 56t Conductivity: +450	
pH: 8.37 DO: 11-91	
Temperature: 9.0 Turbidity: 30.5	
Surface	
Depth: Conductivity: 451	
pH: 8.52 DO: 11-89	
Temperature: 90 Turbidity: 33.7	
Sediments	
Grain size. My d to course grain sand tuniogenous	
Condition (high organic matter, color, odor etc.): Outle or scarce moules in Condition	
Identified sediment dwelling organisms: Wir Stuble Or Sturens	

### SITE CHECKLIST

Site ID: KYBT Time: C1: 30am Date: 11-10-02 Water Samples: Sample **Duplicate** Rinse Blank Trip Blank MS/MSD Metals Filtered: (1-250mL pl) Metals Unfilter: (1-250mL pl) Hardness: (1-125mL pl) VOCs: (3-40mL vial) SVOCs,PCBs, (7-1L gl) Pest/Herbicides: Dioxins: (2-1L gl) Bioassay: Duplicate **Sediment Samples:** Sample Trip Blank MS/MSD Rinse Blank Metals: (1-250mL pl) VOCs: (low)(2-40mL gl) (high)(1-40mL gl) (1-125 mL gl)SVOCs,PCBs, (1-500mL gl) Herb/Pesticides: TOC, pH: (1-250mL pl) Grain size: (1-500mL pl) Dioxins: (1-4oz gl) Bioassay: Bioaccumulation: Comments:

SIT	E SPECIFIC INFORMATIO	N
Site ID: RYCM	Lat: 3853524.44	Date: 11-11-02
Sample ID:	Long: 90° 11' 414.011	Time: 9:30 am
Weather: (temp, cloud, precip, wind	dir, velocity) Sunny	hight breeze
Water Quality		_
Water conditions: (smooth, light cho	pp, cloudy, muddy, etc.) Just his	were relatively calm
Velocity:	0	1 300 11
Depth to Bottom: 14 1+		1715K V
Bottom		(1-1
Depth: 13 ++	Conductivity: . 427	,
pH: 7.87	DO: 12.55	
Temperature: 5.5	Turbidity: 26.5	
Middle	,	
Depth: $7+7$	Conductivity: . 432	
pH: 8.32	DO: 12-69 Turbidity: 24.8	
Temperature: 8.8	Turbidity: 24.8	
Surface		
Depth:	Conductivity: , (a)	4
pH: 8.28	DO: 12.64  Turbidity: 33.6	
Temperature: 8.8	Turbidity: 33.6	
Sediments		1 1
Grain size: Condition (high organic matter, cold	2 Onain > Small Mick My M. Chain top brown, 7 r. odor etg.: UNIL AC > To M.	S M Jap Callar now hayoutowards bot
Identified sediment dwelling organis		were deferred
in any chab tole	on at Ulivo site	
Jome zehka cmus	sei shells were	Louis
		V V

	SIT	E CHECKL	IST		
Site ID: 21 CM	Date:_	11-11-0	2	Time: 9	.30 am
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL p	1)	1,			-
Metals Unfilter: (1-250mL p		<u>.</u>			
Hardness: (1-125mL pl)	<u> </u>				
VOCs: (3-40mL vial)	v <u>ri</u>	rvi			
SVOCs,PCBs, (7-1L gl) ;	+ <del>                                     </del>	المنظر أ	·		<del></del>
Pest/Herbicides:		ı v v			
Dioxins: (2-1L gl)					
Bioassay:	<u> </u>	•			
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)	<del></del> ,			<del></del>	
VOCs: (low)(2-40mL gl)	VV,	<u> </u>			
(high)(1-40mL gl)	<u></u>				*********
(1-125 mL gl)	<del></del>				
SVOCs,PCBs, (1-500mL gl)					
Herb/Pesticides:	<i>,</i> •				
TOC, pH: (1-250mL pl)	<u></u>				
Grain size: (1-500mL pl)				<del></del>	
Dioxins: (1-4oz gl)					-
Bioassay:		<u>L</u>			
Bioaccumulation:					
Comments:					
	<del></del>				
				<del> </del>	
<del></del>				<del></del>	
	····				

SITE SP	ECIFIC INFORMATION	7
Site ID: R5AU Lat:	38 35' 9.7"	Date: 11-8-02
Sample ID: <u>REAU IW, IS</u> Lon	g: 90° 12' 5, 2 4	Time: 12.00
Weather: (temp, cloud, precip, wind dir, v	elocity) Sung, wa	rm, moderate
. / ~		· 1
Water Quality		_
Water Quality Water conditions: (smooth, light chop, clo Velocity: Depth to Bottom:	oudy, muddy, etc.) fast mo	ourng Current,
Velocity:		Dictions
Depth to Bottom:	<del></del>	72-27
Bottom		25
Depth: Uf+	Conductivity: 1473	
pH: 8.27	DO: 12.11	
Temperature: 8.2	Turbidity: 50.4	
Middle		
Depth:	Conductivity: , 471	
pH: <u>&amp; -13</u>	DO: 12.00	
Temperature: $\mathcal{E} \cdot \mathbf{\lambda}$	Turbidity: 26.7	
Surface		•
Depth:	Conductivity: ,470	
pH:8,14	DO: /2.03	
Temperature: $\mathscr{E}$ , $\mathcal{L}$	Turbidity: $\frac{\partial S}{\partial s}$	
Sediments	0	
Grain size: Teal fine Sett Cla	ay 1st linch, fine	to medium par Rhelo
Grain size: That fine Auto Condition (high organic matter, color, odd Way Managarian and Identified sediment dwelling of ganisms:	or etc.): dark ary color	no odor sediment
Identified sediment dwelling ofganisms:	pone son	· · · · · · · · · · · · · · · · · · ·
·		

SITE CHECKLIST					
Site ID: ZAL)	_ Date:_	11-8-02		Time: 12.	$\infty$
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL pl	1)				
Metals Unfilter: (1-250mL p	1)				
Hardness: (1-125mL pl)	V /	<del></del>	<del></del>		
VOCs: (3-40mL vial)					
SVOCs,PCBs, (7-1L gl)					
Pest/Herbicides:					
Dioxins: (2-1L gl)					
Bioassay:					
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)					
VOCs: (low)(2-40mL gl)					
(high)(1-40mL gl)					
(1-125 mL gl)	<u> </u>				<del></del>
SVOCs,PCBs, (1-500mL gl)		<del></del>		<del></del>	
Herb/Pesticides:					
TOC, pH: (1-250mL pl)				***	
Grain size: (1-500mL pl)					
Dioxins: (1-4oz gl)					
Bioassay:	<del></del>				
Bioaccumulation:				-	
Comments:					
				<del></del>	

SITE SP	ECIFIC INFORMATION	V	
Site ID: R5AM Lat:	38°35'7.7"		11-8-02
Sample ID: <u>25AM (1+3)</u> Lon	g: 9CP 12' 7.7"	Time:_	9.10am
Weather: (temp, cloud, precip, wind dir, v	relocity) Sunny Sl	ight	breeze
warm	9.	<u> </u>	·
Water Quality			
Water conditions: (smooth, light chop, clo	oudy, muddy, etc.) <u>Cilm</u>	with	moderate
Velocity:	mour	ngüi	rrent
Depth to Bottom: 3			Pictures
Bottom			14-
Depth: 2 15+	Conductivity: . 46	3	
pH: 6.05	DO: ۱۱،٦٥		
Temperature: C, L	Turbidity: ZO. 1		
Middle			
Depth: 1-5 ft	Conductivity: ,461	·	
pH: £, 38	DO: 11.59		
Temperature: $\hat{\mathcal{B}} \cdot \mathcal{L}$	Turbidity: 27.8	· · · · · · · · · · · · · · · · · · ·	
Surface			
Depth:	Conductivity: , 460		
pH: 8-22	DO: 11.62		
Temperature: 8, 2	Turbidity: 24,2	···········	
Sediments		, -	. 1
Grain size: <u>fine sand, Sur, l</u>	umps of clay Sl	dene	nt homozous
Condition (high organic matter, color, odd	or etc.): MC altectable a	lor, do	isk acky brown
Grain size: <u>Ane Sand, Self, la</u> Condition (high organic matter, color, odd Identified sediment dwelling organisms:	no useble orga	nish	٤
		<u></u>	

SITE CHECKLIST					
Site ID: 25 AM	_ Date:	11-2-0	2	Time: 9:	Oam
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL pl	l)				
Metals Unfilter: (1-250mL p	1)	·		<del>/</del>	
Hardness: (1-125mL pl)	+	<del></del>		<del>\</del>	
VOCs: (3-40mL vial)			******	4//	
SVOCs,PCBs, (7-1L gl)			<del></del>		
Pest/Herbicides:					
Dioxins: (2-1L gl)	4	<del></del>		<u></u>	
Bioassay:		-	<del></del>		
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)					<del></del>
VOCs: (low)(2-40mL gl)	$\checkmark\checkmark$		<del></del>	1	
(high)(1-40mL gl)				<del></del>	
(1-125 mL gl)				4	
SVOCs,PCBs, (1-500mL gl)	<del></del>	<del></del>			
Herb/Pesticides:					
TOC, pH: (1-250mL pl)	<u> </u>			<u></u>	
Grain size: (1-500mL pl)	<u> </u>				<del></del>
Dioxins: (1-4oz gl)			*		
Bioassay:				X	<del></del>
Bioaccumulation:				<del>\</del>	
Comments:					
***************************************					<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>
			<del> </del>		

SITE SPE	CIFIC INFORMATION
Site ID: R5AD Lat: 3	90° 12' 11.2" Date: 11-7-02 Time: 2.50 pm
Sample ID: RSAD IWIS Long:	90° 12' 11.2" Time: 2:50 pm
Weather: (temp, cloud, precip, wind dir, ve	locity) Windy, Sunny 67° F
Water Quality	
Water conditions: (smooth, light chop, cloud	dy, muddy, etc.) relatively colm, moderato
velocity:	movement
Depth to Bottom: 6967	
Bottom	
Depth: 5 6+	Conductivity: . 439
pH:	DO: 12.25
Temperature: 8.3	Turbidity: 22.7
Middle	
Depth: 3tt	Conductivity: , 435
рн: 8 04	DO: 13.13
Temperature: 8.3	Turbidity: 27.1
Surface	
Depth:	Conductivity: . 434
pH: 8.07	DO: 12.11
Temperature: 8.3	Turbidity: 26.7
Sediments	
Grain size: NOT OBTAINED	(VIEW SITE CHECKLISTY FIELD NOTEBOO
Condition (high organic matter, color, odor	etc.):
Identified sediment dwelling organisms:	

## SITE CHECKLIST Site ID: 25AD Date: 11-7-02 Time: 2:5000 Water Samples: Sample Duplicate Trip Blank MS/MSD Rinse Blank Metals Filtered: (1-250mL pl) Metals Unfilter: (1-250mL pl) Hardness: (1-125mL pl) VOCs: (3-40mL vial) SVOCs,PCBs, (7-1L gl) Pest/Herbicides: Dioxins: (2-1L gl) Bioassay: **Sediment Samples:** Sample **Duplicate** Trip Blank Rinse Blank MS/MSD Metals: (1-250mL pl) VOCs: (low)(2-40mL gl) (high)(1-40mL gl)(1-125 mL gl)SVOCs,PCBs, (1-500mL gl) Herb/Pesticides: TOC, pH: (1-250mL pl) Grain size: (1-500mL pl) Dioxins: (1-4oz gl) Bioassay: Bioaccumulation: Comments: After 4 or 5 attempts could not abtain a grab for sediments moved approx. 10.156+ Everal attempts made which were insucessful much auther 10.15 ft.

SITE SP	ECIFIC INFORMATION	N
Site ID: R5 A N Lat:	55 35/1 1"	Date: 11-17-02
Sample ID: Long	g: 90°12'02.1"	Time: 61.45
Weather: (temp, cloud, precip, wind dir, v		
partly cloudy, sunny		
Water Quality		
Water conditions: (smooth, light chop, clo	oudy, muddy, etc.) /ight c	hap, muddy
Velocity:	V	Pholos Disk9
Depth to Bottom: 10'	-	1-4+5
Bottom		
Depth: 9'	Conductivity: 0;475	
pH:\$,14	DO: 13,12	
Temperature: $\S_i$ 3	Turbidity: 29,1	
Middle		
Depth:5 '	Conductivity: 0,476	
pH: \$ 25	DO: 14.13	
Temperature: 3. 3	Turbidity: 5'9, Z	
Surface		
Depth:	Conductivity: (x, 475)	<u> </u>
pH: <u>\$,39</u>	Conductivity: $(\times, 4)$ ?  DO: $(\times, 4)$ ?  Turbidity: $(\times, 4)$ ?	<del></del>
Temperature: 5.3	Turbidity: 72.5	
Sediments $7p/2''$ res	<i>r</i>	
Grain size: Sandy Sill, Clay Silly Condition (high organic matter, color, odo	finete incolum spind	Cest.
Condition (high organic matter, color, odo	or etc.): And gray, drawates	gray, no ador
Identified sediment dwelling organisms:_		

Site ID: R5 AV  Date: 11-17-02 Time: 9:45					
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL pl	l)				
Metals Unfilter: (1-250mL p	l)				
Hardness: (1-125mL pl)		<del></del>			
VOCs: (3-40mL vial)	<u> </u>	<del></del>			
SVOCs,PCBs, (7-1L gl)	July!	<del></del>			
Pest/Herbicides:					
Dioxins: (2-1L gl)					
Bioassay:					***************************************
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)					
VOCs: (low)(2-40mL gl)	1/			<del></del>	
(high)(1-40mL gl)			<del></del>	<del></del>	
(1-125 mL gl)				<del></del>	-
SVOCs,PCBs, (1-500mL gl)				<del></del>	
Herb/Pesticides:					
TOC, pH: (1-250mL pl)					the same of the sa
Grain size: (1-500mL pl)					
Dioxins: (1-4oz gl)				<del></del>	
Bioassay:			****	-	
Bioaccumulation:				<del>,</del>	
Comments:	/ A				
613 mile trans inti	kir for 5	3735 0º	<del></del>	<del></del>	
die dirth trans man	d 1 F				
300 with sand Man	(* ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	92 12'0			

SITE SPE	CIFIC INFORMATION
Sample ID: Long:	90° 12′ 5.5″ Date: 11-9-02 90° 12′ 5.5″ Time: 11′ 10 am ocity) Cloudy, Windy, Cool
	dy, muddy, etc.) relatively fax moving current.  Disky  1-10
Bottom           Depth:         19 f+           pH:         8.02           Temperature:         8.5           Middle	Conductivity: , 437  DO: 13.09  Turbidity: 37.5
Depth: 10f+  pH: 8.39  Temperature: 8.5  Surface	Conductivity: . 430 DO: 13.81  Turbidity: 34.3
Depth:	Conductivity: , <u>U38</u> DO: <u>12.70</u> Turbidity: <u>24.5</u>
Grain size: 10-p   in Ch fine Selt Condition (high organic matter, color, odor bu Selty By gand - Ofter 1005 Identified sediment dwelling organisms:	N/ clay bottom fine to medium layer, etc.): ail strines no real odar top lang semples no modprized.

SITE CHECKLIST					
Site ID: R5 BU	_ Date:_	11-9.0	20	Time: 11	10 pm
Water Samples: Metals Filtered: (1-250mL p. Metals Unfilter: (1-250mL p.  Headness: (1-125mL p.)		Duplicate	Trip Blank	MS/MSD	Rinse Blank
Hardness: (1-125mL pl) VOCs: (3-40mL vial) SVOCs,PCBs, (7-1L gl) Pest/Herbicides:	<u> </u>				
Dioxins: (2-1L gl) Bioassay:					
Sediment Samples:  Metals: (1-250mL pl)  VOCs: (low)(2-40mL gl)	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Grain size: (1-500mL pl) Dioxins: (1-4oz gl) Bioassay: Bioaccumulation: Comments:					

SITE SI	PECIFIC INFORMATION	N
Site ID: Late Sample ID: Low Weather: (temp, cloud, precip, wind dir,		_ 4 1
Water Quality		
Water conditions: (smooth, light chop, c	loudy, muddy, etc.) Nelati	vely calm
Velocity:		Pict
Depth to Bottom: \8		Disk U
Bottom		3.1
Depth:	Conductivity: 436	
pH: 8 08	DO: 12.84	
Temperature: 8.3	Turbidity: 33.60	
Middle	1) -	
Depth: 844	Conductivity: 1437	
pH: <u>8.53</u>	DO: 12.43	
Temperature: 6.3	Turbidity: 30.4	
Surface		
Depth: 12f+	Conductivity: , 438	
pH: 8.43	DO: 12.36	
Temperature: 8 4	Turbidity: 30.4	
Sediments		
Grain size: Fine 40 my dum	grain and small su	It content, med become
Condition (high organic matter, color, or	lor etc.): 1900 (1907 clithy)	loop cul od or.
Identified sediment dwelling organisms:	no organismo	Altocka.
	· · · · · · · · · · · · · · · · · · ·	

# SITE CHECKLIST Site ID: R5Bm Time: 9:15am Date: 11-9-07 Water Samples: Sample Duplicate Trip Blank Rinse Blank MS/MSD Metals Filtered: (1-250mL pl) Metals Unfilter: (1-250mL pl) Hardness: (1-125mL pl) VOCs: (3-40mL vial) SVOCs,PCBs, (7-1L gl) Pest/Herbicides: Dioxins: (2-1L gl) Bioassay: Sediment Samples: Sample Duplicate Trip Blank Rinse Blank MS/MSD Metals: (1-250mL pl) VOCs: (low)(2-40mL gl) (high)(1-40mL gl) (1-125 mL gl) SVOCs,PCBs, (1-500mL gl) Herb/Pesticides: TOC, pH: (1-250mL pl) Grain size: (1-500mL pl) Dioxins: (1-4oz gl) Bioassay: Bioaccumulation: Comments:

SITE SPECIFIC INFORMATION	
Site ID: R5BD Lat: 38° 35 1 6.9" Date: 1	1-8.02
Site ID: R5BD Lat: 38° 35 1 6.9 11 Date: 1  Sample ID: Long: 91° 12' 11.9 11 Time:	8.00 am
Weather: (temp, cloud, precip, wind dir, velocity) Sumy (cos	light
- breize	0
Water Quality	
Water conditions: (smooth, light chop, cloudy, muddy, etc.) The derately factority:  Velocity:  Depth to Bottom: 154+	it moung comin
Velocity: ('alm water)	0
Depth to Bottom: 156+	
Bottom	9-15
Depth: 13.ft. Conductivity: 1465  pH: 7.51  DO: 11.84	
pH: 1.51 DO: 11.84	
Temperature: 7.9 Turbidity: 169.0	}
Middle	
Depth: 10-f+ Conductivity: 1465  pH: 815  DO: 11.75	
pH: 8 15 DO: 11.75	
Temperature: 7.9 Turbidity: 150	
Surface	
Depth: Conductivity: 461	
pH: 8 4 DO: 11.73	
Temperature: 7.9 Turbidity: 1690	
Grain size: SAMPLE COULD NO BY OBTHING	
Condition (high organic matter, color, odor etc.):	ľ
Identified sediment dwelling organisms:	

SITE CHECKLIST					
Site ID: <u>2580</u>	_ Date:	11-8-11	20	Time: 50	0 am
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL p	1)	<del></del>			<del></del>
Metals Unfilter: (1-250mL p	1)				
Hardness: (1-125mL pl)					
VOCs: (3-40mL vial)					
SVOCs,PCBs, (7-1L gl)	1///			*******	
Pest/Herbicides:					
Dioxins: (2-1L gl)				<del></del>	
Bioassay:					
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)					
VOCs: (low)(2-40mL gl)		-			-
(high)(1-40mL gl)					
(1-125 mL gl)					
SVOCs,PCBs, (1-500mL gl)				•	
Herb/Pesticides:					
TOC, pH: (1-250mL pl)					
Grain size: (1-500mL pl)			<del></del>		
Dioxins: (1-4oz gl)	<del></del>				<del></del>
Bioassay:	<del></del>				<del> </del>
Bioaccumulation:			<del></del>		
Comments:					
	<u> </u>				
				<del></del>	
				·	
	<del></del>				

SITE S	SPECIFIC INFORMATIO	N
Site ID: <u>R 5 B 4'</u> L	at: 38°35 / 11,5"	Date:
Sample ID:L	ong: 90°12'02,5"	Date: $1/-1/-c/2$ Time: $1/-1/-c/2$
Weather: (temp, cloud, precip, wind di		
- 56 my	J	
Water Quality		
Water conditions: (smooth, light chop,	cloudy, muddy, etc.) /14/11 ch.	-p, mudely
Velocity:	,	,
Depth to Bottom: 17'		
Bottom		
Depth: / G'	Conductivity: <u>0,471</u>	
pH: \$,17	DO: 13,55	
Temperature: $5 3$	Turbidity: 24, C	
Middle		
Depth: 5' pH: 4, 41	Conductivity: 0,47	
	DO: 14,17	
Temperature: 5, 3	Turbidity: 71,5	
Surface	٠ مبر	
Depth:	Conductivity: 0,46	
pH: <u>8,43</u>	DO: 14,15	
Temperature: 8,3	Turbidity: $ZO, O$	<del></del>
Sediments		
Grain size: Sirrly Silty Clay  Condition (high organic matter, color, or	, acquiscruithde	oth
Condition (high organic matter, color, o	odor etc.): <u>50'11'é Organic mate v</u>	dank browngray deayodo
Identified sediment dwelling organisms	s: plans matter	
	·	

SITE CHECKLIST					
Site ID: <u>\$5 B \$5</u>	_ Date:_	11-17-0	2	Time:(	. C
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL pl	l) <u>√</u>				-
Metals Unfilter: (1-250mL p	l)				
Hardness: (1-125mL pl)	<u> </u>				
VOCs: (3-40mL vial)	<u> </u>				
SVOCs,PCBs, (7-1L gl)	<u> </u>				
Pest/Herbicides:					
Dioxins: (2-1L gl)					
Bioassay:					
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)	<u></u>				
VOCs: (low)(2-40mL gl)	11			<del></del>	
(high)(1-40mL gl)					
(1-125 mL gl)					
SVOCs,PCBs, (1-500mL gl)				<del> </del>	
Herb/Pesticides:					
TOC, pH: (1-250mL pl)					
Grain size: (1-500mL pl)					
Dioxins: (1-4oz gl)					
Bioassay:					
Bioaccumulation:					
Comments:					
			<u> </u>		
	······································				
	<del></del>	·			
		<del></del>		<del></del>	
				-	

SITE SPE	CIFIC INFORMATION	N
Site ID: SCO	80°35'9'8"	Date: 11-9-02
	90°12'9.3"	
Weather: (temp, cloud, precip, wind dir, ve	locity) Chan du	Time: 6:05am Mourate breezo
Cour upper 500		0 07
Water Quality		
Water Quality Water conditions: (smooth, light chop, cloud Velocity:  Depth to Bottom: 28, 4 ft	idy, muddy, etc.) light	movement from who
Velocity:	fast moving a	wrent Pictures
Depth to Bottom: 28.4 ft		DISKS 24134
Bottom		D13K4 1-4
Depth: 37	Conductivity: . 43	
pH: 7.4	DO: 13.45	
Temperature: 8.2	Turbidity: 33.2	
Middle		
Depth: 13 1 +	Conductivity: ,430	
pH: 8.37	DO: 12.60 Turbidity: 31.6	
Temperature: 8.2	Turbidity: 31.6	
Surface		
Depth:	Conductivity: 430	
pH: 8 - 2 1	DO: 12.41	
Temperature: 8.3	Turbidity: 32.7	
Sediments		
Grain size: 1 Clum to C	oarse sund, Coa	l gramomaybepreson
Condition (high organic matter, color, odor	etc.): little organic	matter, no odor.
Grain size: <u>We clear</u> to C.  Condition (high organic matter, color, odor  Identified sediment dwelling organisms:	rum ti aarx v	cour sara
(no- seen organism	A	

	SITE CHECKLIST				
Site ID: R5Cm	_ Date:_	11-9-	07.	Time: 8	osam
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL p	1)				
Metals Unfilter: (1-250mL p	1)				
Hardness: (1-125mL pl)			-		
VOCs: (3-40mL vial)	///				
SVOCs,PCBs, (7-1L gl)	////				
Pest/Herbicides:	VVV				
Dioxins: (2-1L gl)			<del></del>		
Bioassay:			-		***************************************
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)		<del></del>			-
VOCs: (low)(2-40mL gl)	<u> </u>	<del></del>			
(high)(1-40mL gl)	<u> </u>				
(1-125 mL gl)	<u> </u>				-
SVOCs,PCBs, (1-500mL gl)			***************************************		-
Herb/Pesticides:	,				
TOC, pH: (1-250mL pl)					***************************************
Grain size: (1-500mL pl)					
Dioxins: (1-4oz gl)			***************************************	***************************************	
Bioassay:	<u> </u>	<del></del>			
Bioaccumulation:					<del> </del>
Comments:					
					· · · · · · · · · · · · · · · · · · ·

SITE SPECIFIC INFORMATION				
Site ID: 26AU Lat: 38°35'05.0" Date: 11/6/02				
Site ID: 26AU Lat: 38° 35° 05.00 Date: 11/6/02  Sample ID: R6AU W, R6AU T SLong: 20° 12' 18', 31' Time: 11:58 1M.				
Weather: (temp, cloud, precip, wind dir, velocity) Dantly 1:16.12				
Water Quality				
Water conditions: (smooth, light chop, cloudy, muddy, etc.) Cloudy, fast moung  Velocity:  Depth to Bottom: 19,24  Bottom				
Velocity:				
Depth to Bottom:				
Bottom				
Depth: \ \( \phi \tau \tau \) Conductivity: \( \phi \tau \tau \tau \tau \tau \tau \tau \tau				
pH: 7.7 DO: 11.7.  Temperature: 2.0.1.  Turbidity: -9!1-14. 35.0				
Temperature: 2.0.1. Turbidity: -9!!-14 35.0				
Middle				
Depth: 8ft Conductivity: .431				
pH: 8.1 DO:				
Temperature: 8.0° C Turbidity: 16				
Surface				
Depth: 14. Conductivity: 4.29. 0.47.9				
pH: 8.15 DO: 11.7				
Temperature: 8.0 Turbidity: 26				
Sediments				
Grain size: New July little more clay less 290 sand, From				
Condition (high organic matter, color, odor etc.): Dight property Color, Large Craquic				
Identified sediment dwelling organisms:				

SITE CHECKLIST					
Site ID: 10 f. 10	Date: 11 6,00			Time:	
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL pl	l)	<del></del>	**************************************		
Metals Unfilter: (1-250mL p	l) <u> </u>				
Hardness: (1-125mL pl)	<u> </u>				
VOCs: (3-40mL vial)	-				
SVOCs,PCBs, (7-1L gl)					
Pest/Herbicides:	<b>VVV</b> ′				
Dioxins: (2-1L gl)					-
Bioassay:					
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)	<u> </u>				
VOCs: (low)(2-40mL gl)	<u> </u>			<del> </del>	
(high)(1-40mL gl)	<u></u>				
(1-125 mL gl)					· · · · · · · · · · · · · · · · · · ·
SVOCs,PCBs, (1-500mL gl)					
Herb/Pesticides:	/				
TOC, pH: (1-250mL pl)	<u> </u>				
Grain size: (1-500mL pl)	<u>V</u>			<del></del>	
Dioxins: (1-4oz gl)					
Bioassay:					
Bioaccumulation:					
Comments:					
			<del></del>		
		·····		<del></del>	<del></del>
			·····		

SITE SI	PECIFIC INFORMATI	ION	
Site ID: Rep Am Lat			
Sample ID CHINGS Low Low Weather: (temp, cloud, precip, wind dir,	ng: W 90 12 198	Time: 1:25	
Weather: (temp, cloud, precip, wind dir,	velocity) Sunny	scialt breeze	
150s timp. 460	· · · · · · · · · · · · · · · · · · ·	J J	
Water Quality			
Water conditions: (smooth, light chop, c	loudy, muddy, etc.) ialr	of Slower Moun	4
Velocity:	(LLT		1
Depth to Bottom: 17(+	<del></del>	Picture	
Bottom		D.SKZ	,
Depth: 15ft	Conductivity: 14	30	~ 1 <b>æ</b>
pH: 7.5	DO: 11.91		
Temperature: 7.8	Turbidity: 35.4	0	}
Middle			
Depth: Oft	Conductivity: .42	8	
рн: 8.31	DO: 11.77		
Temperature: 7.8	Turbidity: 30.5		
Surface			
Depth: / f +	Conductivity: , 42	28	
рн: 8 - 36	DO: 11.86		
Temperature: 7.8	Turbidity: 35.6	3	
Sediments			
Grain size: Aut + 1 with	Some Clay Con	xxxx Cess 5/0 Sand,	enk
Grain size: Aut + 1 with  Condition (high organic matter, color, or	dor etc.): Acuk Groy 1516	icu wicral particles, ao	1019
Identified sediment dwelling organisms:	none found		
	·		
		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	

SITE CHECKLIST						
Site ID: RUAM	Date:_	Date: 11-7-0			Time: 8:45	
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank	
Metals Filtered: (1-250mL pl	1)		<del></del>			
Metals Unfilter: (1-250mL p	l)					
Hardness: (1-125mL pl)						
VOCs: (3-40mL vial)	<u> </u>	1//				
SVOCs,PCBs, (7-1L gl)						
Pest/Herbicides:		<b>V V</b>				
Dioxins: (2-1L gl)						
Bioassay:						
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank	
Metals: (1-250mL pl)						
VOCs: (low)(2-40mL gl)	<u> </u>	<u> </u>				
(high)(1-40mL gl)						
(1-125 mL gl)						
SVOCs,PCBs, (1-500mL gl)						
Herb/Pesticides:	,					
TOC, pH: (1-250mL pl)	<u> </u>	<del></del>				
Grain size: (1-500mL pl)						
Dioxins: (1-4oz gl)		4		-		
Bioassay:			<del></del>			
Bioaccumulation:				<del></del>		
Comments:						
				<del></del>		
	· · · · · · · · · · · · · · · · · · ·					
		<del></del>				
		<del></del>				

SITE SPECIFIC INFORMATION
Site ID: 2(cA) Lat: 38° 35'00 .4" Date: 11/6/02
Site ID: <u>RGADIW</u> , <u>RGADIS</u> Long: 90°12'21.1" Date: 11 6 02  Time: 8:20 Gm
Weather: (temp, cloud, precip, wind dir, velocity) Cloudy, light breeze
G O
Water Quality
Water conditions: (smooth, light chop, cloudy, muddy, etc.) Gast Monny Cunsust
Water conditions: (smooth, light chop, cloudy, muddy, etc.) Gost Monny United  Velocity:  Depth to Bottom: 18  Welco 11'16 0
Depth to Bottom: / Q W' Cloo il' 16 O
Depth: Off Conductivity: .434  pH: Temperature: S.O.C Turbidity: 45.94 50.0  Middle
Depth: Conductivity: 15 9  pH: 100: 11.5
pH:
Temperature: 3.0 C Turbidity: £3.1 DC.0
Depth: 7 # . Conductivity: , 1 5 5  pH: DO: #: 11, 7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Surface
Depth: 1ft - Conductivity: 1437
pH: \$.3 DO: 11.7
Temperature: 8°C Turbidity: 50.0
Sediments
Grain size: 100 500 fix Sone Sitt Clarifluid mud, not for Condition (high organic matter, color, odor etc.): All (Mill Mary Science + F, Sight of
Condition (high organic matter, color, odor etc.): All Cill (71/101) Science + +, Sight
Identified sediment dwelling organisms:
inhertebral identification. 11/10/11/10-11/4/10
Inhertebrale Identification. 1.10: 112 - 1 and
- Citte -

#### SITE CHECKLIST Site ID: ROAD Date: 11/6/02 Time: $S: \mathcal{C}(t)$ a.m. **Duplicate** Water Samples: Sample Trip Blank Rinse Blank MS/MSD Metals Filtered: (1-250mL pl) Metals Unfilter: (1-250mL pl)\_\_\_\ Hardness: (1-125mL pl) VOCs: (3-40mL vial) SVOCs,PCBs, (7-1L gl) Pest/Herbicides: Dioxins: (2-1L gl) Bioassay: **Sediment Samples:** Sample Duplicate Trip Blank MS/MSD Rinse Blank Metals: (1-250mL pl) VOCs: (low)(2-40mL gl) (high)(1-40mL gl) (1-125 mL gl) SVOCs,PCBs, (1-500mL gl) Herb/Pesticides: TOC, pH: (1-250mL pl) Grain size: (1-500mL pl) Dioxins: (1-4oz gl) Bioassay: Bioaccumulation: Comments:

SITE	SPECIFIC INFORMATION	
Site ID: ROBO	Lat: 38°35'02.1" Date: 11/10/	07
Sample ID ROBUTIVE IS	Lat: 38°35'02.1" Date: 11/10/9 Long: 90°12'18.2" Time: 2.3	10 pm
Weather: (temp, cloud, precip, wind d	lir, velocity) & Sunny with little	Le Cloud
Coverage, light	broose.	
Water Quality	0	
Water conditions: (smooth, light chop	, cloudy, muddy, etc.) relatively Calm, sio Pictu	wer mourney
Velocity:	Dictu	res la
Depth to Bottom: 30 ft	Di	ok2 1-8
Bottom		
Depth: 30 61	Conductivity: 429	
pH: 6.00	DO: 12.1	
Temperature: 8.1°C	Turbidity: 30 Nto	
Middle		
Depth: 156+	Conductivity: 4283	
pH: 8,4	DO:	
Temperature: 8.1	Turbidity: 26.0	Ì
Surface		
Depth: 1 f-\frac{1}{2}.	Conductivity: , 427	
pH: 8.3	DO:	
Temperature: 8.1	Turbidity: 28.	
Sediments		
Grain size: Von Odynd Control	, mostly sult content slighty the	Kef-Chinique
Condition (high organic matter, color,	odor etc.): Might execuse alor- Mu	Il fine ble
Identified sediment dwelling organism	ns:	- Coar

SITE CHECKLIST					
Site ID: BLOBC	Date: 11 6 02			Time: 2:20pm	
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL p	1)		-		
Metals Unfilter: (1-250mL p	01)				
Hardness: (1-125mL pl)					-
VOCs: (3-40mL vial)	11/	-			
SVOCs,PCBs, (7-1L gl)					
Pest/Herbicides:					
Dioxins: (2-1L gl)		<del></del>			
Bioassay:				<del></del>	
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)					
VOCs: (low)(2-40mL gl)	<del></del>				
(high)(1-40mL gl)		<del></del>			<del></del>
(1-125 mL gl)		<del></del>		<del></del>	
SVOCs,PCBs, (1-500mL gl)			<del></del>		
Herb/Pesticides:					
TOC, pH: (1-250mL pl)					
Grain size: (1-500mL pl)				<del></del>	<del></del> ;
Dioxins: (1-4oz gl)	<del></del>	<del></del>			
Bioassay:					
Bioaccumulation:			<del> </del>		
Comments:					
		<u></u>	<del>,,</del>		
			<del></del>	· · · · · · · · · · · · · · · · · · ·	
			<u> </u>	<del></del>	
		<del> </del>	<u> </u>		

SITE SPE	CIFIC INFORMATION	N
Site ID: ROBIN Lat: Sample ID: ROBIN Long: Weather: (temp, cloud, precip, wind dir, ve	900121208"	Time: 10: 45am
Water Quality Water conditions: (smooth, light chop, cloud Velocity: Depth to Bottom: 557 337+  Bottom Depth: 337+ pH: 7.71 Temperature: 7.9	Conductivity: 12.7  Turbidity: 29.9	1 10-22
Middle  Depth: 10 ft  pH: 8.34  Temperature: 8.0  Surface  Depth: 0  pH: 8.36	Conductivity: 1434  DO: 12.03  Turbidity: 28.4  Conductivity: 433  DO: 12.0  Turbidity: 26.4	
Temperature: 8.0  Sediments  Grain size: 4 And flue all Condition (high organic matter, color, odor Identified sediment dwelling organisms:		

#### SITE CHECKLIST Time: 10:45 am Site ID: Residual Water Samples: Sample **Duplicate** Trip Blank MS/MSD Rinse Blank Metals Filtered: (1-250mL pl) Metals Unfilter: (1-250mL pl) Hardness: (1-125mL pl) VOCs: (3-40mL vial) SVOCs,PCBs, (7-1L gl) Pest/Herbicides: Dioxins: (2-1L gl) Bioassay: **Sediment Samples: Duplicate** Rinse Blank Trip Blank MS/MSD Sample Metals: (1-250mL pl) VOCs: (low)(2-40mL gl) (high)(1-40mL gl) (1-125 mL gl) SVOCs,PCBs, (1-500mL gl) Herb/Pesticides: TOC, pH: (1-250mL pl) Grain size: (1-500mL pl) Dioxins: (1-4oz gl) Bioassay: Bioaccumulation: Comments:

~`. ! ~ <del>`</del> `	SITE SPECIFIC INFORMATION  Lat: 2035.00	ON	
Site ID: 775	Lat: 27035.00	Date:	
Sample ID:	nple ID: Long: 90'   2' 27 . 8'!		
Weather: (temp, cloud, pred	cip, wind dir, velocity)		
Water Quality		·	
Water conditions: (smooth,	light chop, cloudy, muddy, etc.)		
Velocity:			
Depth to Bottom:			
Bottom			
Depth:	Conductivity:		
pH:			
Temperature:			
Middle			
Depth:	Conductivity:		
pH:			
Temperature:			
Surface			
Depth:	Conductivity:		
pH:	DO:		
Temperature:	Turbidity:		
Sediments			
Grain size:			
Condition (high organic ma	tter, color, odor etc.):		
	g organisms:		
*****			

SITE CHECKLIST					
Site ID: 20BI	Date: 11602				
Site Can					
Water Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals Filtered: (1-250mL pl	l)				
Metals Unfilter: (1-250mL p	l)				
Hardness: (1-125mL pl)		_		**************************************	
VOCs: (3-40mL vial)		•			
SVOCs,PCBs, (7-1L gl)		<del> </del>	<del></del>		<del></del>
Pest/Herbicides:					
Dioxins: (2-1L gl)					
Bioassay:					
	Samuela.	Danillanta	Tuin Diani	BAC MACD	Direc Directo
Sediment Samples:	Sample	Duplicate	Trip Blank	MS/MSD	Rinse Blank
Metals: (1-250mL pl)			<del></del>		
VOCs: (low)(2-40mL gl)	<del></del>				<del></del>
(high)(1-40mL gl)					
(1-125 mL gl)					<del></del>
SVOCs,PCBs, (1-500mL gl)					
Herb/Pesticides:					
TOC, pH: (1-250mL pl)				·· <del>···········</del>	<del></del>
Grain size: (1-500mL pl)			<del></del>		
Dioxins: (1-4oz gl)					
Bioassay:					
Bioaccumulation:				- <del></del>	
Comments:					
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SITI	E SPECIFIC INFORMATION	ON
Site ID: RGC	Lat: 38° 35'02, 6"	Date: 11-7-02
Sample ID: RICCO IN, IS	Long: 90° 12' 22.3"	Time: 1:00 pm
Weather: (temp, cloud, precip, wind	dir, velocity) Sunry, C	001 600, light
Dreeze		0
Water Quality		
Water conditions: (smooth, light cho	op, cloudy, muddy, etc.) Modera	ite movement
Velocity:		Pictures
Depth to Bottom: 35ft	<del></del>	24-30
Bottom		
Depth: 3 1 17	_ Conductivity: . 430	<u> </u>
pH: 8 · 04		
Temperature: 8.1°C	Turbidity: 27.4	
Middle		
Depth: \Cft	Conductivity:	•
pH: 8 38		
Temperature: 8.1	_ Turbidity: <u>26 . 0</u>	)
Surface		
Depth:	Conductivity: , 4 3	30
pH: 8 43		
Temperature: 8 · 1	Turbidity: 23.0	
Sediments	· ·	
Grain size: Myduum to	Joanse grain sand w	matter some coal, no smill
Condition (high organic matter, colo	or, odor etc.): Low on gance	matter some coal, no smill
Identified sediment dwelling organis	sms:	

#### SITE CHECKLIST Site ID: RCCC Date: 11-7-02 Time: 1:00pm Water Samples: Duplicate Trip Blank MS/MSD Sample Rinse Blank Metals Filtered: (1-250mL pl) Metals Unfilter: (1-250mL pl) Hardness: (1-125mL pl) /// VOCs: (3-40mL vial) SVOCs,PCBs, (7-1L gl) Pest/Herbicides: Dioxins: (2-1L gl) Bioassay: **Sediment Samples:** Sample Duplicate Trip Blank MS/MSD Rinse Blank Metals: (1-250mL pl) VOCs: (low)(2-40mL gl) (high)(1-40mL gl)(1-125 mL gl) SVOCs,PCBs, (1-500mL gl) Herb/Pesticides: TOC, pH: (1-250mL pl) Grain size: (1-500mL pl) Dioxins: (1-4oz gl) Bioassay: Bioaccumulation: Comments:

## Appendix V

Copy of Chain-of-Custody Forms

## senal Number 655764

STATEN TRENT	ANALYSIS	REQUEST	AND CHAIN	I OF CUSTODY R	ECO	RD	15		2 LaRo	nah che Ave GA 314					P	hone: (	www.stl-ind (912) 354-76 (2) 352-016	858		
SERVICES	STL S	avanna	h		·			> Alte	rnate Li	aborato	ry Namo	e/Locat	ion			hone:	···			·
PROJECT REFERENCE	JEY_	PROJECT NO	, ,	PROJECT LOCATION (STATE)			trix (Pe	!   			R	EQUIRE	D <b>ana</b> ly	SIS			P/	<b>√</b> GE		OF
STL (LAB) PROJECT MANAGER		P.O. NUMBER		CONTRACT NO.	$\prod$												S D	TANDARD RE ELIVERY	PORT	0
CHENT (SITE) PM		CLIENT PHON	Ε	CLIENT FAX	DICATE		LVENT,											DATE DUE_		
CLIENT NAME		CLIENT E-MAII	L		COMPOSITE (C) OR GRAB (G) INDICATI	6	AIR NONAQUEOUS LIQUID (OIL, SOLVENT,)	9	VCC	VOC	100						l (s	XPEDITED RE ELIVERY SURCHARGE)	PORT	0
CLIENT ADDRESS					S			>	HV		لغ							DATE DUE_	001 50	
COMPANY CONTRACTING THIS	WORK (if applica	ble)			OSITE (	SIS SE	SUEOUS	Z Z	Met	PR	E	E	XV/	T	V	118	1 1	ER SHIPMEN		S SUBMITTED
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RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS		DATE	TIME	RECEIVED BY: (SIGNATU	RE)				DATE		TIME		RECEIV	ED By	(SIGNATI	JRE)	<del></del> .	DATE		TIME
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## serial Number US5700

SIA	LRX XI	ANALYSIS	REQUEST	AND CHAII	N OF CUSTODY R	EC	OR	D		510		nnah iche Ave GA 314				-	F	hone:	: www.sti- (912) 354 2) 352-0	4-7858				
		STL Sa	avanna	ıh						⊃ Aite	rnate L	aborato	ry Nam	e/Loca	tion			hone:						ı İ
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CLIENT NAME			CLIENT E-MAI	L		S AA	2		air Nonaqueous Liquid (OIL, Solyent,)	18	VOC	10C	70/							DELIV	DITED REPO ERY CHARGE)	RT C	,	ĺ
CLIENT ADDRES	s		·			ا و		욼	LIQUIE	>	۱ -	_	>							DAT	E DUE	· · · ·		
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SEVEL		Analysis	REQUEST	AND CHAIN	I OF CUSTODY RI	ECC	ORD		_	510		nnah che Ave GA 314			·		P	hone:	www.stHno (912) 354-76 2) 352-0165	358		
SERVICE		STL Sa	avanna	h					$\subseteq$	> Alte	rnate L	aborato	ry Nam	e/Loca	tion			hone: ax:				
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Serial Number 6.5701

ANALYSIS REQUEST AND CHA	IN OF CUSTODY RE	CORD	2		2 LaRo	nnah che Ave GA 314					F	Phone:	e: www.stH (912) 354 (2) 352-01	-7858		
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AMEC San Diego Bloassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

Date 1/17/02 Page 1 of /

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Date 11/1/1/2 Page 1 of 1

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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Serial Number **055782** 

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Serial Number 855760 STL Savannah Website: www.stl-inc.com **ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD** SIVERN 5102 LaRoche Avenue Phone: (912) 354-7858 Savannah, GA 31404 Fax: (912) 352-0165 TRENT Alternate Laboratory Name/Location STL Savannah Phone: Sacramento Fax: PROJECT REFERENCE PROJECT LOCATION OF PROJECT NO. MATRIX PAGE REQUIRED ANALYSIS (STATE) () TYPE STL (LAB) PROJECT MANAGER P.O. NUMBER CONTRACT NO. STANDARD REPORT Robert Hranak DELIVERY NONAQUEOUS LIQUID (OIL, SOLVENT, ...) CLIENT (SITE) PM CLIENT PHONE CLIENT FAX DATE DUE Harman **EXPEDITED REPORT** CLIENT NAME GRAB (G) CLIENT E-MAIL Soid DELIVERY AMEC (SURCHARGE) COMPOSITE (C) OR GRA AQUEOUS (WATER) SOUD OR SEMISOUD AIR CLIENT ADDRESS DATE DUE NUMBER OF COOLERS SUBMITTED PRESERVATIVE COMPANY CONTRACTING THIS WORK (if applicable) PER SHIPMENT: SAMPLE SAMPLE IDENTIFICATION NUMBER OF CONTAINERS SUBMITTED REMARKS DATE TIME RELINQUISHED BY: (SIGNATURE) DATE TIME RELINQUISHED BY: (SIGNATURE) DATE TIME RELINQUISHED BY: (SIGNATURE) DATE TIME **EMPTY CONTAINERS** 10 mic Haulbroak RECEIVED BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) TIME TIME RECEIVED BY: (SIGNATURE) **EMPTY CONTAINERS** 



AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

Date 1116/62 Page 1 of 1

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AMEC San Diego Bloassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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#### PENNINGTON & ASSOCIATES, INC.

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570 East 10th Street \* Cookeville, TN 38501\*Phone (931) 526-6038\* Fax (931) 528-4167

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AMEC San Diego Blosssay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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AMEC San Diego Bloassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

Date 11 14 1 2 Page 1 of 311

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AMEC San Diego Bloassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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Date 11/4/02 Page 1 of 1

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#### **Chain of Custody**

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Journal Number 1, 2501

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD  5102 LaRoche Avenue Savannah, GA 31404	Phone: (912) 354-7858 Fax: (912) 352-0165
SERVICES STL Savannah	me/Location Phone: Fax:
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#### **ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD**

STL Savannah 5102 LaRoche Avenue Savannah, GA 31404

Website: www.stl-inc.com Phone: (912) 354-7858 Fax: (912) 352-0165

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AMEC San Diego Bioessay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

Date 11/15/02 Page 1 of 1

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#### Chain of Custody Record



#### Severn Trent Laboratories, Inc.

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AMEC San Diego Bioassay Laboratory

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DISTRIBUTION: WHITE CANARY - AMEC Riceseav Lab PINK - Originator

AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121

Date 11/12/02 Page 1 of 1 858-458-9044 COMPANY HYMEC E + E

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego. CA 92121

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AMEC San Diego Bioessay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

Date 11112 Page 1 of 1

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#### **Chain of Custody**

AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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CONTAINER TYPE

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Date 11 10 Page 1 of 1	
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**ANALYSIS REQUIRED** 

# Earth & Environmental

**Chain of Custody** 

AMEC San Diego Blosssay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

Date 11 13 CE Page 1 of 1

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

Date 16/9/02 Page 1 of 1

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AMEC San Diego Bloassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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## AMEC San Diego Bloassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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Serial Number UJ4956

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IRENI		REQUEST		OF CUSTODY R	ECOF	RD		2846 900 L	Industr akeside	ial Plaz Drive,	a Drive Mobile	, Tallah , AL 36	GA 314 assee, F 693 ampa, F	FL 3230	01 F	Phone: ( Phone: (	(850) 878 (334) 666 (813) 885	8-3994 6-6633 5-7427	Fax: (856 Fax: (334 Fax: (813	2) 352-0165 0) 878-9504 4) 666-6696 3) 885-7049
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AMEC San Diego Bioessay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 859-459-0044

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ADDRESS			^ 10 =		Blog((um	3	1											PROJECT MANAGER  SAMPLERS (SIGNATURE)	PROJECT MANAGER	NUMBER OF CONTAINERS
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PHONE NO.					74(	Pirassan												PHONE NUMBER	PHONE NUMBER	EROF
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58464 Serial Number STL Savannah Website: www.stl-inc.com **ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD** SEVERN 5102 LaRoche Avenue Phone: (912) 354-7858 Fax: (912) 352-0165 Savannah, GA 31404 TRENT Alternate Laboratory Name/Location **STL Savannah** STRV1015 Phone: Fax: MATRIX PROJECT REFERENCE PROJECT NO. PROJECT LOCATION PAGE OF REQUIRED ANALYSIS WIN (STATE) TYPE STL (LAB) PROJECT MANAGER STANDARD REPORT DELIVERY P.O. NUMBER CONTRACT NO. COMPOSITE (C) OR GRAB (G) INDICATE
AQUEOUS (WATER)
SOLID OR SEMISOLID
AIR
NONAQUEOUS LIQUID (OIL, SOLVENT, ...) CLIENT PHONE CLIENT FAX CLIENT (SITE) PM DATE DUE EXPEDITED REPORT DELIVERY CLIENT E-MAIL (SURCHARGE) CLIENT ADDRESS DATE DUE NUMBER OF COOLERS SUBMITTED COMPANY CONTRACTING THIS WORK (if applicable) PER SHIPMENT: SAMPLE SAMPLE IDENTIFICATION NUMBER OF CONTAINERS SUBMITTED REMARKS DATE TIME NO REBDIN

RELINQUISHED BY: (SIGNATURE) DATE TIME RELINOUISHED BY: (SIGNATURE) DATE TIME RELINQUISHED BY: (SIGNATURE) DATE TIME **EMPTY CONTAINERS** RECEIVED BY: (SIGNATURE) DATE DATE TIME . RECEIVED BY: (SIGNATURE) TIME RECEIVED BY: (SIGNATURE) DATE TIME **EMPTY CONTAINERS** 



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COMPANY 1411EC ADDRESS			<u>(4H</u> z11		3, Sarcum	B,0001cm		AN	ALYS	IS RE	QUIR	ED				PROJECT MANAGER  PROJECT MANAGER  SAMPLERS (SIGNATURE)  PHONE NUMBER  CONCENTRATIONS/COMMENTS
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							(Compa	ny)								AMEC Blossesy Lab Log-in No.



AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

Date 11/8/02 Page / of /

COMPANY	CE	1 E							ANA	ALYS	IS RE	QUIF	RED	T	<u> </u>			C. Harwari	6
ADDRESS		STATE _	GH ZIF															PROJECT MANAGER  SAMPLERS (SIGNATURE)  PHONE NUMBER	NUMBER OF CONTAINERS
SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	٠.													CONCENTRATIONS/COMMENTS	NCIN
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AMEC San Diego Bloassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121

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serial Number

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SINTRX IREXT	ANALYSIS	REQUEST A	AND CHAIN	OF CUSTODY RE	COI	RD	ير		2 LaRo	<b>mah</b> che Ave GA 314				-	F	hone:	: www.stl- (912) 354 2) 352-01	<b>1</b> -7858		
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### **ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD**

**STL Savannah** 

51L Sevennah 5102 LaRoche Avenue Savannah, GA 31404 Website: www.stl-inc.com Phone: (912) 354-7858 Fax: (912) 352-0165

Alternate Laboratory Name/Location

· Phone:

Fax:

PROJECT REFERENCE	/	PROJECT NO.	:	PROJECT LOCATION (STATE) · 100		MATE					1	REQUIRE	D ANAL	YSIS				PAGE	7	OF
STL (LABYPROJECT MANAGER		P.O. NUMBER		CONTRACT NO.		TT	$\neg$	23	σž	22		()	(\$\$)	1)	Ŷ			STAN	DARD REPOR	
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CLIENT NAME  HIVIEC F+	F	CLIENT E-MAIL	-	:	AB (G)		(OIL, SX	1201	Svoc/	Grain	Toc/	metak (T	nttaks (Dis	MRtals(	Hardno			DELIN	DITED REPOI ERY CHARGE)	
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Serial Number

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STL (LAB) PROJECT MANAGER		P.O. NUMBER		CONTRACT NO.	П	П	7	2	0	d		1	-31		<u>~</u>		1	STAND	ARD REPORT	0
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STATEN	ANALYSIS	REQUEST	AND CHAIN	OF CUSTODY RE	COR	RD	2	<b>`</b> 510	. <b>Seva</b> 2 LaRo annah,	che Ave				Website: www.stl-inc.com Phone: (912) 354-7858 Fax: (912) 352-0165						
SERVICES	STL Sa	avanna	ħ					⊃ Alte	mate La	aborato	ry Nam	e/Loca	tion			hone:				
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serial Number UU4956

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STL (LAB) PROJECT MANAGER		P.O. NUMBER		CONTRACT NO.	П	$\sqrt{}$	П	ر ک	2	25			ı(j)	نڌ	\$			STAN	DARD RE	PORT	
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serial Number

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STATEN.	ANALYSIS	REQUEST	AND CHAIN	OF CUSTODY RI	ECO	RD	,	9	STL Sevannah         Website: www.stl-inc.com           5102 LaRoche Avenue         Phone: (912) 354-7858           Savannah, GA 31404         Fax: (912) 352-0165								7858				
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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

Date 11/6/02 Page 1 of

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AMEC San Diego Bloassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

Date 11/6/02 Page 1 of 1

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AMEC San Diego Bioessay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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**UU4457** 5102 LaRoche Avenue, Savannah, GA 31404 **ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD** Phone: (912) 354-7858 Fax: (912) 352-0165 SINERS 2846 Industriai Plaza Drive, Tallahassee, FL 32301 Phone: (850) 878-3994 Fax: (850) 878-9504 LRENI900 Lakeside Drive, Mobile, AL 36693 Phone: (334) 666-6633 Fax: (334) 666-6696 SERVICES Severn Trent Laboratories, Inc. 6712 Benjamin Road, Suite 100, Tampa, FL 33634 Phone: (813) 885-7427 Fax: (813) 885-7049 SALvamen PROJECT NO. PROJECT LOCATION MATRIX PAGE OF REQUIRED ANALYSIS ISTATE) 1770 TYPE STL (LABY PROJECT MANAGER P.O. NUMBER CONTRACT NO. STANDARD REPORT DELIVERY CLIENT PHONE CLIENT FAX DATE DUE EXPEDITED REPORT CLIENT E-MAIL DELIVERY AMEC (SURCHARGE) CLIENT ADDRESS DATE DUE NUMBER OF COOLERS SUBMITTED COMPANY CONTRACTING THIS WORK (if applicable) PER SHIPMENT: SAMPLE SAMPLE IDENTIFICATION NUMBER CONTAINERS SUBMITTED REMARKS DATE TIME **RELINQUISHED BY: (SIGNATURE)** DATE TIME RELINQUISHED BY: (SIGNATURE) DATE TIME RELINQUISHED BY: (SIGNATURE) DATE TIME 6:3000 ルノフ **EMPTY CONTAINERS** RECEIVED BY: (SIGNATURE) DATE RECEIVED BY: (SIGNATURE) TIME DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME **EMPTY CONTAINERS** 

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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AMEC San Diego Bloessay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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AMEC San Diego Bioassay Laboratory 5550 Morehouse Drive, Suite B San Diego, CA 92121 858-458-9044

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Serial Number 58455

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD										STL Sevennsh 5102 LaRoche Avenue Savannah, GA 31404									Website: www.stl-inc.com Phone: (912) 354-7858 Fax: (912) 352-0165						
SERVICES		Alternate Laboratory Name/Location  Phone: Fax:																							
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